

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

**National Earthquake Information Center
Waveform Catalog
May 1986**

by

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This report is preliminary and has not been reviewed for conformity with
U.S. Geological Survey editorial standards.

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Introduction

This report provides a visual catalog of digitally recorded waveform data available from the event tapes produced by the United States Geological Survey's National Earthquake Information Center (NEIC). It is intended to provide the researcher with a quick index both to the availability of data and to the character of the data for each event (e.g., complexity and directionality).

The network-event tapes are a data service initiated by the NEIC in 1984. Currently, these tapes contain data from the Global Digital Seismograph Network (GDSN), the Regional Seismograph Test Network (RSTN), and the Glen Almond, Canada, SRO station. In the future, data from other high-quality stations and arrays, installed and operated by countries around the world, will be added to the event tapes as they are made available to us.

Network-event tapes contain digital data for earthquakes of magnitude 5.5 or greater in the NEIC network-day tape format. For this catalog, all available vertical component recordings in all period bands are shown, including those for stations that were saturated or nonoperational or that had some other difficulty during the event. Horizontal component records were omitted in order to minimize the size of this catalog. In general, one can expect them to be of approximately the same quality as the vertical component records at any particular time. Most of the available stations do not record short-period horizontal components. All stations that have intermediate-period recordings, however, record all three components in this band. Only long-period components are recorded continuously; short- and intermediate-period channels are recorded only when an event is detected. Horizontal components (where available) are recorded whenever the vertical component is, and never otherwise.

This report mainly consists of vertical component waveforms from all reporting stations, organized by event. The section for each event is prefaced by a station coverage map, in which stations and geography within 100° of the source are shown in an azimuthal equidistant projection centered at the epicenter. Following the coverage map, all short-period, vertical component waveforms are shown in order of increasing epicentral distance. Each short-period waveform is two minutes long and is identified by station code, start

time, and epicentral distance, Δ , in degrees. The start time is chosen to be about 15 seconds before the earliest theoretical arrival time of interest (P, Pdiff, or PKP_{df}, depending on distance). The vertical scale is in microns of ground displacement at the dominant period of the instrument response, which is taken to be 1 second. Each page of waveforms is titled with the event origin date-time, the Flinn-Engdahl region name, and the component identifier (SPZ, LPZ or IPZ). Also, the depth of the event (h) in kilometers and its average body (m_b) and vertical surface wave (Ms_z) magnitudes are shown for convenience.

Following the short-period waveforms (SPZ), long-period vertical (LPZ) and finally intermediate-period vertical (IPZ) waveforms are shown. In each case, the format is the same as for the short-period waveforms. Fifty minutes of long-period data are shown beginning 1 minute before the theoretical first arrival, and the dominant period is taken to be 25 seconds. Four minutes of intermediate-period data are shown beginning 30 seconds before the theoretical first arrival, and the dominant period is assumed to be 1 second. Because (1) the event detection algorithm is not perfect, (2) only about half of the available stations have intermediate-period channels, and (3) one station (GAC) has no short-period recordings, it is not uncommon for stations with good long-period recordings to have no intermediate-period and perhaps no short-period recordings at all.

With the inclusion of the Network of Autonomously Registering Stations (NARS) in September 1985, it was difficult to list the name of each station in the network on the station coverage map because of their close proximity. Instead, a new symbol (\square) will be used to denote each station of the network, with the name NARS. When other networks are included with stations situated close together, a new symbol will be used to denote each station of each network. The name used will be the network name only.

Table 1. Earthquakes for May 1986 with magnitudes ≥ 5.5

	Origin Time UTC	Latitude	Longitude	Depth (km)	Magnitude m_b	Magnitude M_{SZ}	Finn-Engdahl Region Name
1.	1986 05 01 17:21:23.91	15.048° S	174.445° W	33.0	5.2	5.5	Tonga Islands
2.	1986 05 01 19:31:37.64	21.920° S	170.328° E	33.0	5.8	5.7	Loyalty Islands Region
3.	1986 05 02 10:30:05.30	55.151° N	163.907° E	33.0	5.8	5.9	Off East Coast of Kamchatka
4.	1986 05 05 03:35:38.80	37.973° N	37.767° E	10.0	5.8	5.9	Turkey
5.	1986 05 05 05:46:37.19	18.235° N	102.534° W	33.0	5.6	5.6	Michoacan, Mexico
6.	1986 05 05 15:14:35.71	7.042° S	155.995° E	84.0	5.5		Solomon Islands
7.	1986 05 07 20:43:32.67	51.333° N	174.778° W	33.0	6.1	6.0	Andreanof Islands, Aleutian Is.
8.	1986 05 07 22:47:10.25	51.412° N	174.830° W	33.0	6.5	7.7	Andreanof Islands, Aleutian Is.
9.	1986 05 07 23:07:46.21	51.780° N	174.825° W	33.0	5.6		Andreanof Islands, Aleutian Is.
10.	1986 05 07 23:15:04.88	51.503° N	175.444° W	33.0	5.5		Andreanof Islands, Aleutian Is.
11.	1986 05 07 23:25:33.11	36.299° N	70.613° E	296.5	5.5		Hindu Kush Region
12.	1986 05 07 23:36:17.49	51.380° N	173.795° W	33.0	5.7		Andreanof Islands, Aleutian Is.
13.	1986 05 07 23:51:01.93	51.474° N	174.872° W	33.0	5.8		Andreanof Islands, Aleutian Is.
14.	1986 05 07 23:52:18.59	51.746° N	174.273° W	33.0	5.7		Andreanof Islands, Aleutian Is.
15.	1986 05 08 01:11:02.05	51.047° N	176.612° W	33.0	5.9		Andreanof Islands, Aleutian Is.
16.	1986 05 08 01:15:14.68	51.128° N	176.789° W	33.0	5.6		Andreanof Islands, Aleutian Is.
17.	1986 05 08 02:04:00.05	51.114° N	176.796° W	33.0	5.5		Andreanof Islands, Aleutian Is.
18.	1986 05 08 04:03:49.85	51.088° N	176.335° W	33.0	5.7	5.4	Andreanof Islands, Aleutian Is.
19.	1986 05 08 05:37:22.24	51.296° N	175.344° W	33.0	6.0	6.2	Andreanof Islands, Aleutian Is.
20.	1986 05 08 14:37:35.37	4.592° N	125.512° E	162.0	5.8		Taland Islands
21.	1986 05 09 01:05:30.71	51.216° N	176.824° W	33.0	5.4	5.6	Andreanof Islands, Aleutian Is.
22.	1986 05 09 01:08:10.05	51.102° N	176.816° W	33.0	5.6	5.4	Andreanof Islands, Aleutian Is.
23.	1986 05 09 16:23:51.21	17.111° S	65.666° W	30.0	5.5	5.5	Bolivia
24.	1986 05 09 19:04:28.80	51.545° N	174.186° W	33.0	5.7	5.6	Andreanof Islands, Aleutian Is.
25.	1986 05 09 19:24:42.30	51.470° N	174.012° W	33.0	5.3	5.8	Andreanof Islands, Aleutian Is.
26.	1986 05 10 12:02:01.74	37.042° S	94.030° W	10.0	5.6	5.0	West Chile Rise
27.	1986 05 11 01:24:28.77	26.678° N	125.176° E	222.6	5.9		Northeast of Taiwan
28.	1986 05 11 19:40:31.20	51.561° N	173.676° W	33.0	5.6	5.2	Andreanof Islands, Aleutian Is.
29.	1986 05 11 22:48:45.93	51.560° N	174.585° W	33.0	5.5	5.1	Andreanof Islands, Aleutian Is.
30.	1986 05 13 08:44:02.05	41.362° N	43.643° E	10.0	5.6	5.4	Turkey-USSR Border Region

Table 1. Earthquakes for May 1986 with magnitudes ≥ 5.5 , continued.

								Flinn-Engdahl Region Name
Origin Time UTC		Latitude	Longitude	Depth (km)			Magnitude	
					m_b	M_{sz}		
31.	1986 05 13 22:00:08.66	32.620° N	141.434° E	40.3	5.4	5.6		South of Honshu, Japan
32.	1986 05 14 01:58:31.03	51.538° N	173.527° W	33.0	5.5	4.8		Andreanof Islands, Aleutian Is.
33.	1986 05 14 03:04:05.44	1.492° N	127.008° E	67.8	5.6			Halmahera
34.	1986 05 15 06:38:37.78	52.267° N	174.747° W	33.0	5.6	6.4		Andreanof Islands, Aleutian Is.
35.	1986 05 16 16:51:13.10	47.207° N	154.153° E	29.8	5.7	5.5		Kuril Islands
36.	1986 05 17 16:20:22.82	52.305° N	174.573° W	33.0	5.7	6.6		Andreanof Islands, Aleutian Is.
37.	1986 05 20 05:25:48.67	24.032° N	121.602° E	33.0	6.2	6.3		Taiwan
38.	1986 05 20 05:37:30.71	23.994° N	121.550° E	33.0	5.5			Taiwan
39.	1986 05 20 21:57:05.00	7.327° S	106.445° E	51.3	5.5	4.4		Java
40.	1986 05 21 05:47:11.28	43.809° N	148.471° E	37.9	6.1	6.2		Kuril Islands Region
41.	1986 05 23 09:51:24.38	12.659° N	48.106° E	10.0	5.5	5.4		Eastern Gulf of Aden
42.	1986 05 24 10:43:35.23	15.777° S	172.880° W	33.0	5.5	5.7		Samoa Islands Region
43.	1986 05 26 18:40:46.12	21.719° S	179.256° W	603.8	5.9			Fiji Islands Region
44.	1986 05 26 19:06:17.50	20.069° S	178.723° E	553.2	6.8			South of Fiji Islands
45.	1986 05 27 08:54:05.18	7.074° S	124.190° E	612.4	5.7			Banda Sea
46.	1986 05 27 22:03:09.93	15.548° S	173.883° W	33.0	5.5	5.0		Tonga Islands
47.	1986 05 27 22:07:59.29	7.644° S	150.744° E	33.0	5.6			New Britain Region
48.	1986 05 28 13:33:44.15	19.983° N	115.932° W	10.0	5.5	5.1		East Central Pacific Ocean
49.	1986 05 30 08:02:37.28	11.033° S	162.535° E	33.0	5.5	5.0		Solomon Islands
50.	1986 05 30 17:24:58.23	21.914° S	139.032° W	0.0	5.7			Tuamoto Archipelago Region
51.	1986 05 31 05:36:29.88	57.324° S	147.710° E	10.0	5.0	5.6		West of Macquarie Island

Table 2. Network-event tape station list for May 1986.

Code	ID	Station	Latitude	Longitude	Elevation (m)	Type*
ANMO	30	Albuquerque, New Mexico	34.95° N	106.46° W	1740.0	SRO
ANTO	31	Ankara, Turkey	39.87° N	32.79° E	883.0	SRO
BCAO	37	Bangui, Central African Republic	4.43° N	18.54° E	336.0	SRO
CHTO	33	Chiang Mai, Thailand	18.79° N	98.98° E	316.0	SRO
COL	62	College, Alaska	64.90° N	147.79° W	320.0	DWWSSN
CTAO	50	Charters Towers, Australia	20.09° S	146.25° E	357.0	ASRO
GAC	43	Glen Almond, Quebec, Canada	45.70° N	75.48° W	620.0	SRO
GDH	70	Godhavn, Greenland	69.25° N	53.53° W	23.0	DWWSSN
GRA1	302	Haidhof, Germany	49.69° N	11.22° E	500.0	GRF
GRB1	303	Bruennthal, Germany	49.39° N	11.65° E	494.0	GRF
GRC1	304	Eglofsdorf, Germany	48.99° N	11.52° E	512.0	GRF
GRFO	39	Graefenberg, Germany	49.69° N	11.22° E	500.0	SRO
GUMO	35	Guam, Mariana Islands	13.59° N	144.87° E	14.0	SRO
HON	66	Honolulu, Hawaii	21.32° N	158.01° W	2.0	DWWSSN
JAS1	64	Jamestown, California	37.93° N	120.42° W	425.0	DWWSSN
KEV	67	Kevo, Finland	69.76° N	27.01° E	80.0	DWWSSN
KONO	54	Kongsberg, Norway	59.65° N	9.60° E	216.0	ASRO
LON	63	Longmire, Washington	46.75° N	121.81° W	854.0	DWWSSN
MAJO	53	Matsushiro, Japan	36.54° N	138.21° E	422.0	ASRO
NE02	202	Monsted, Denmark	56.459° N	9.170° E	60.0	NARS
NE03	203	Logumkloster, Denmark	55.045° N	9.153° E	25.0	NARS
NE04	204	Witteveen, Netherlands	52.813° N	6.668° E	17.0	NARS
NE05	205	Utrecht, Netherlands	52.088° N	5.172° E	2.0	NARS
NE06	206	Dourbes, Belgium	50.097° N	4.595° E	225.0	NARS
NE07	207	Villiers-Adam, France	49.074° N	2.232° E	70.0	NARS
NE10	210	Arette, France	43.086° N	0.699° W	480.0	NARS
NE11	211	Ainzon, France	41.814° N	1.517° W	440.0	NARS
NE13	213	Puertollano, Spain	38.685° N	4.091° W	700.0	NARS
NE14	214	Granada, Spain	37.190° N	3.595° W	774.0	NARS
NE15	215	Valkenburg, Netherlands	50.867° N	5.785° E	100.0	NARS
NE16	216	Clermont-Ferand, France	45.763° N	3.103° E	80.0	NARS
NE17	217	Toledo, Spain	39.881° N	4.049° W	480.0	NARS
NRA0	301	NORESS array site A0	60.735° N	11.541° E	302.0	NRSA
NWAO	38	Mundaring (Narrogin), Australia	32.93° S	117.24° E	265.0	SRO
RSCP	81	Cumberland Plateau, Tennessee,	35.60° N	85.57° W	481.0	RSTN
RSNT	82	Yellowknife, Northwest Territories	62.48° N	114.59° W	90.0	RSTN
RSNY	84	Adirondack, New York	44.55° N	74.53° W	351.0	RSTN
RSON	85	Red Lake, Ontario	50.86° N	93.70° W	302.0	RSTN
RSSD	83	Black Hills, South Dakota	44.12° N	104.04° W	1948.0	RSTN
SCP	61	State College, Pennsylvania	40.79° N	77.87° W	352.0	DWWSSN
SLR	71	Silverton, South Africa	25.73° S	28.28° E	1348.0	DWWSSN
SNZO	42	Wellington (South Karori), New Zealand	41.31° S	174.70° E	-12.0	SRO
TATO	41	Taipei, Taiwan	24.98° N	121.49° E	53.0	SRO
TAU	74	Hobart, Tasmania	42.91° S	147.32° E	132.0	DWWSSN
TOL	73	Toledo, Spain	39.88° N	4.05° W	480.0	DWWSSN
ZOBO	51	La Paz (Zongo), Bolivia	16.27° S	68.13° W	4450.0	ASRO

* ASRO - Abbreviated Seismic Research Observatory

DWWSSN - Digital World Wide Standardized Seismograph Network

GRF - Graefenberg Array

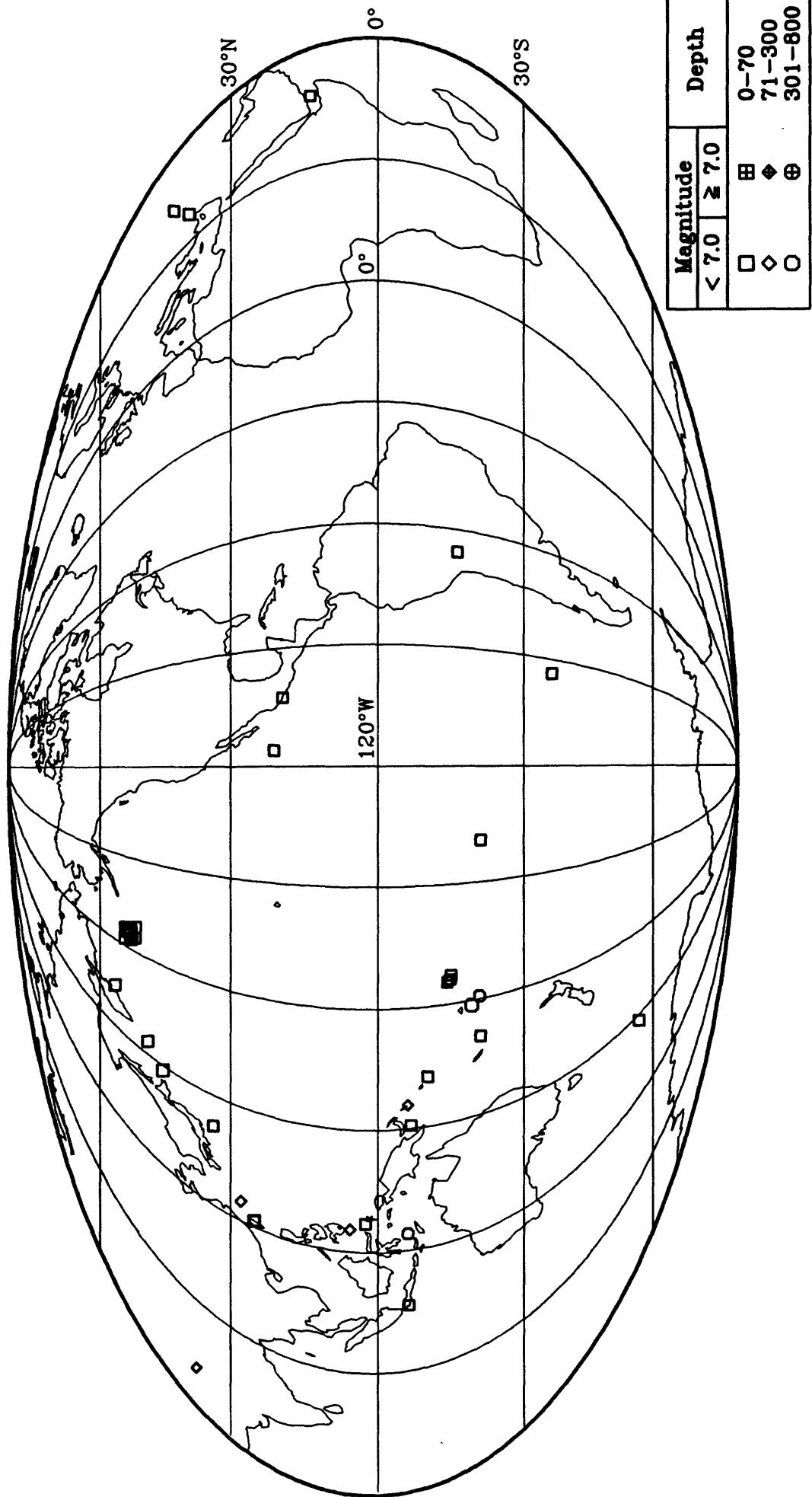
NARS - Network of Autonomously Registering Stations

NRSA - Norwegian Regional Seismic Array

RSTN - Regional Seismic Test Network

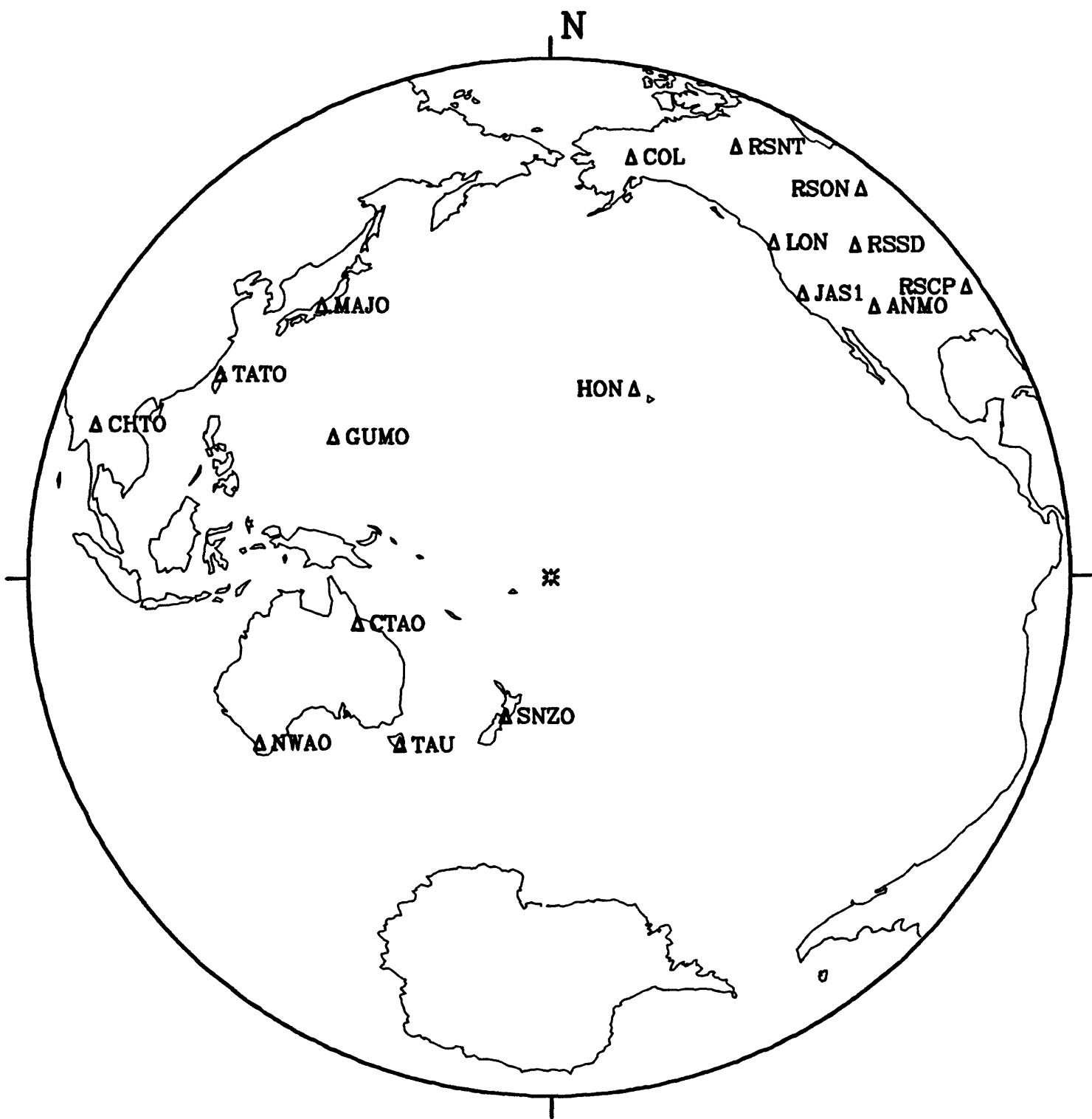
SRO - Seismic Research Observatory

EARTHQUAKES – May 1986 – MAGNITUDE ≥ 5.5



01 May 1986 17:21:23.91

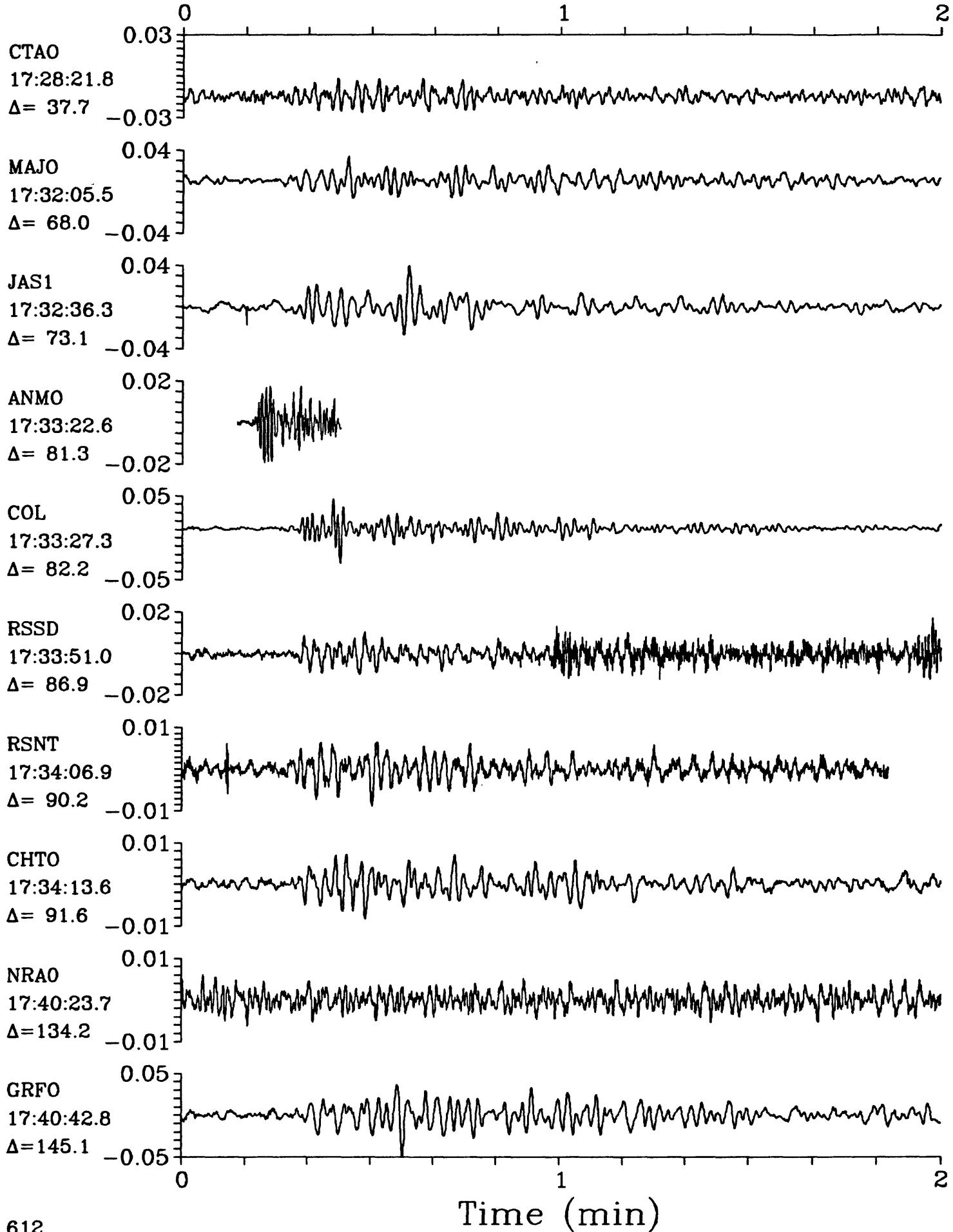
Tonga Islands



SPZ

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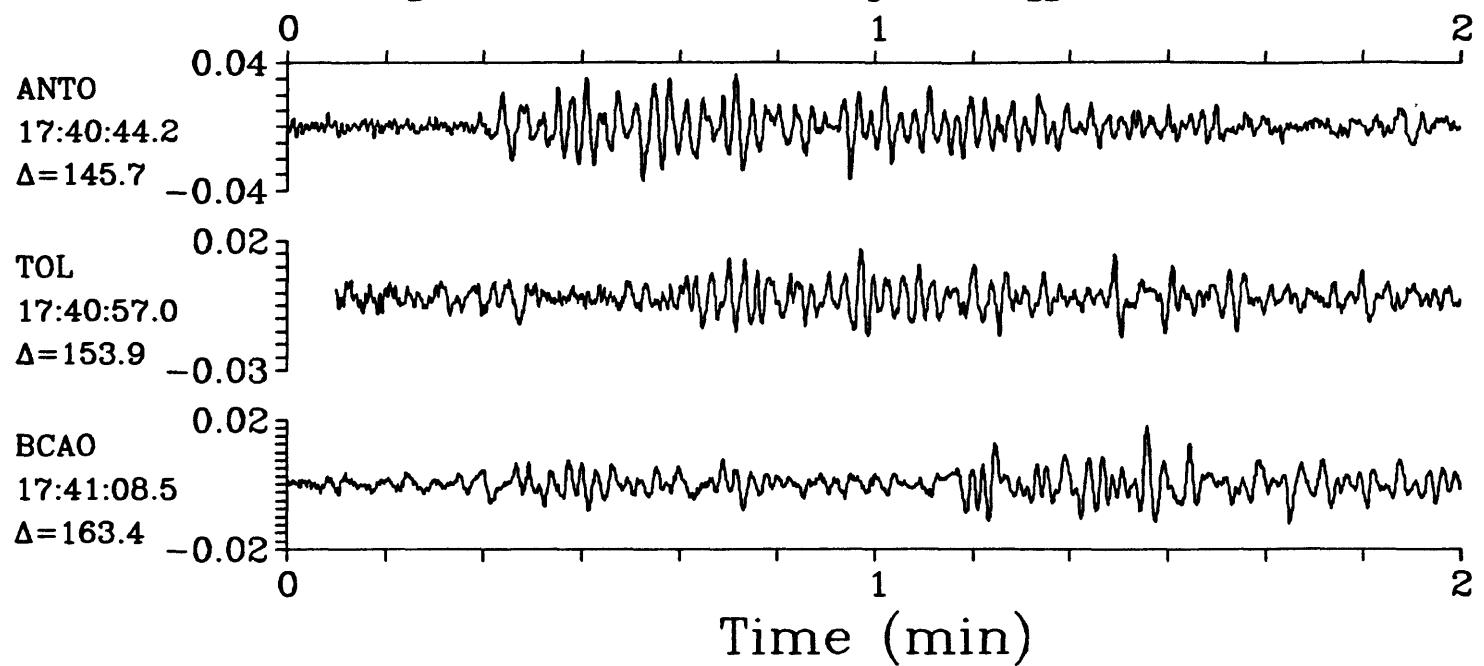
SPZ



SPZ

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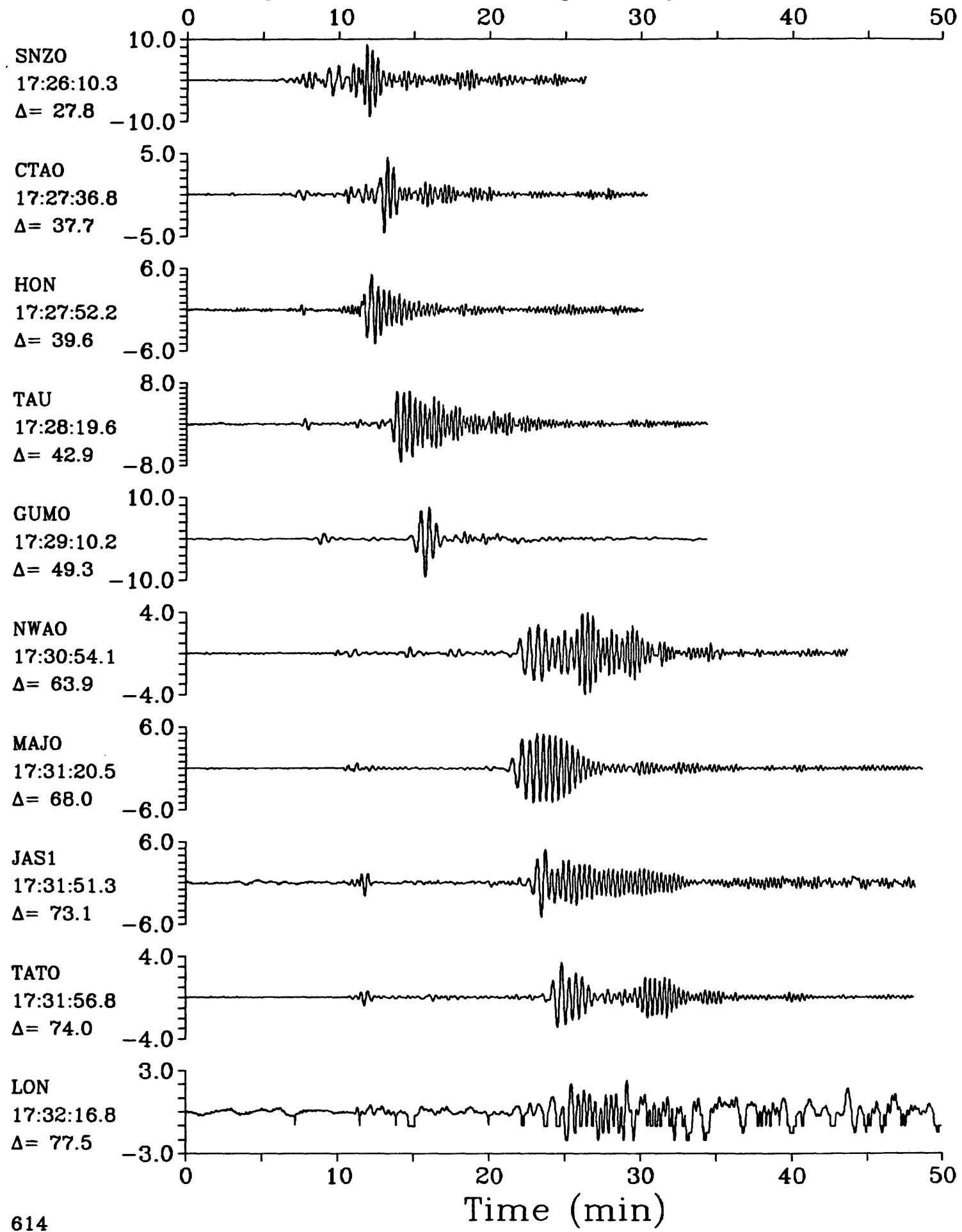
SPZ



LPZ

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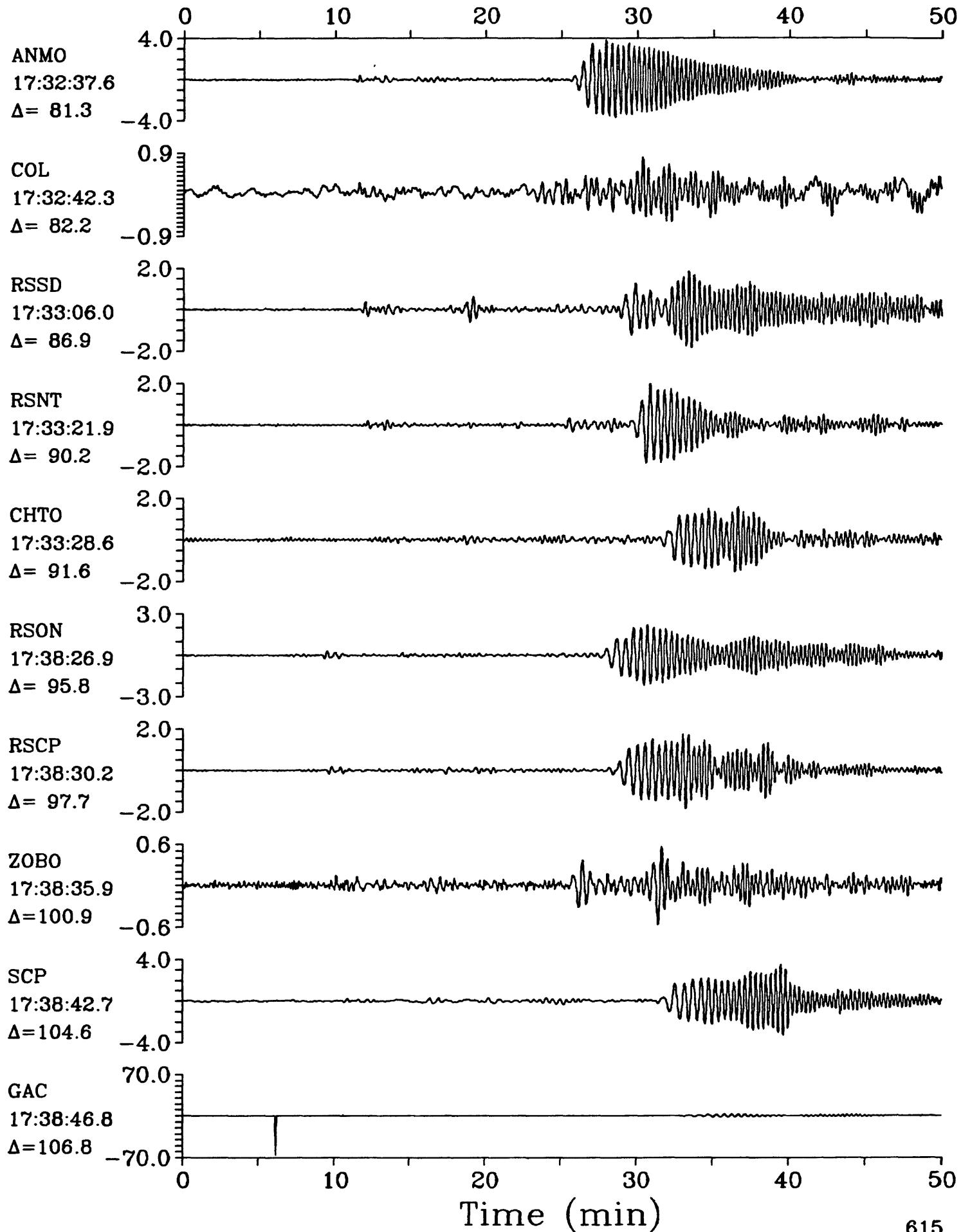
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LPZ

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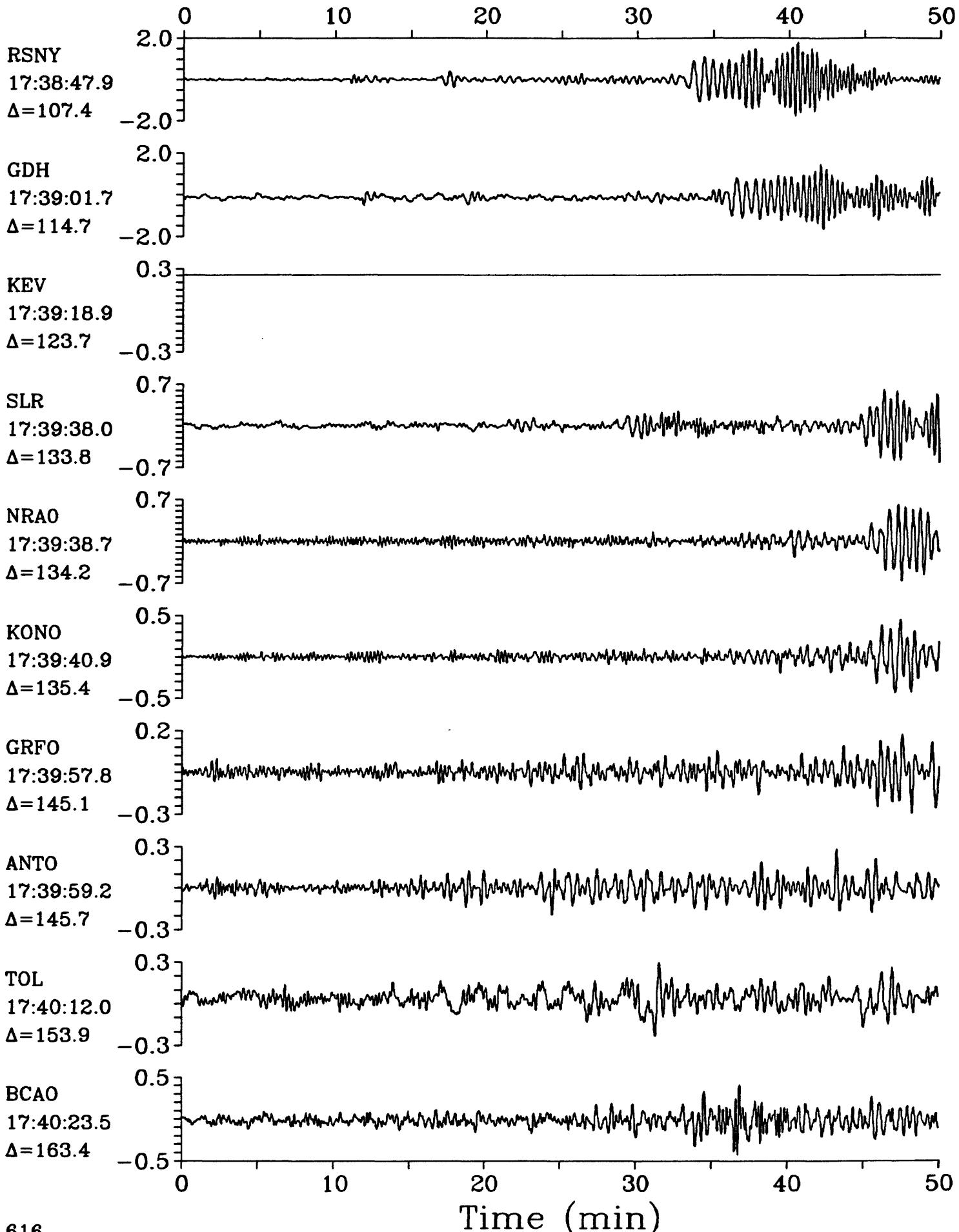
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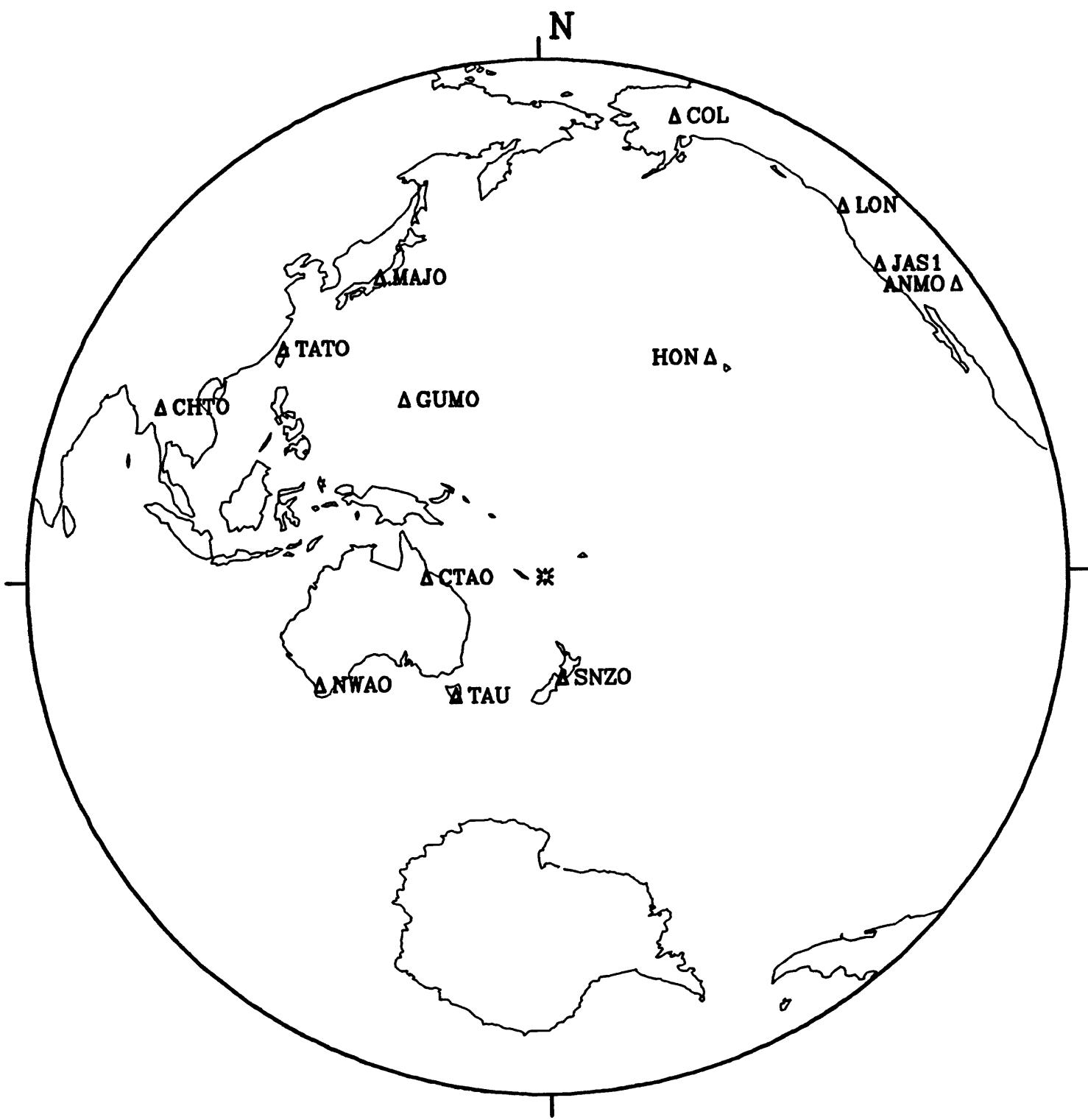
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LPZ

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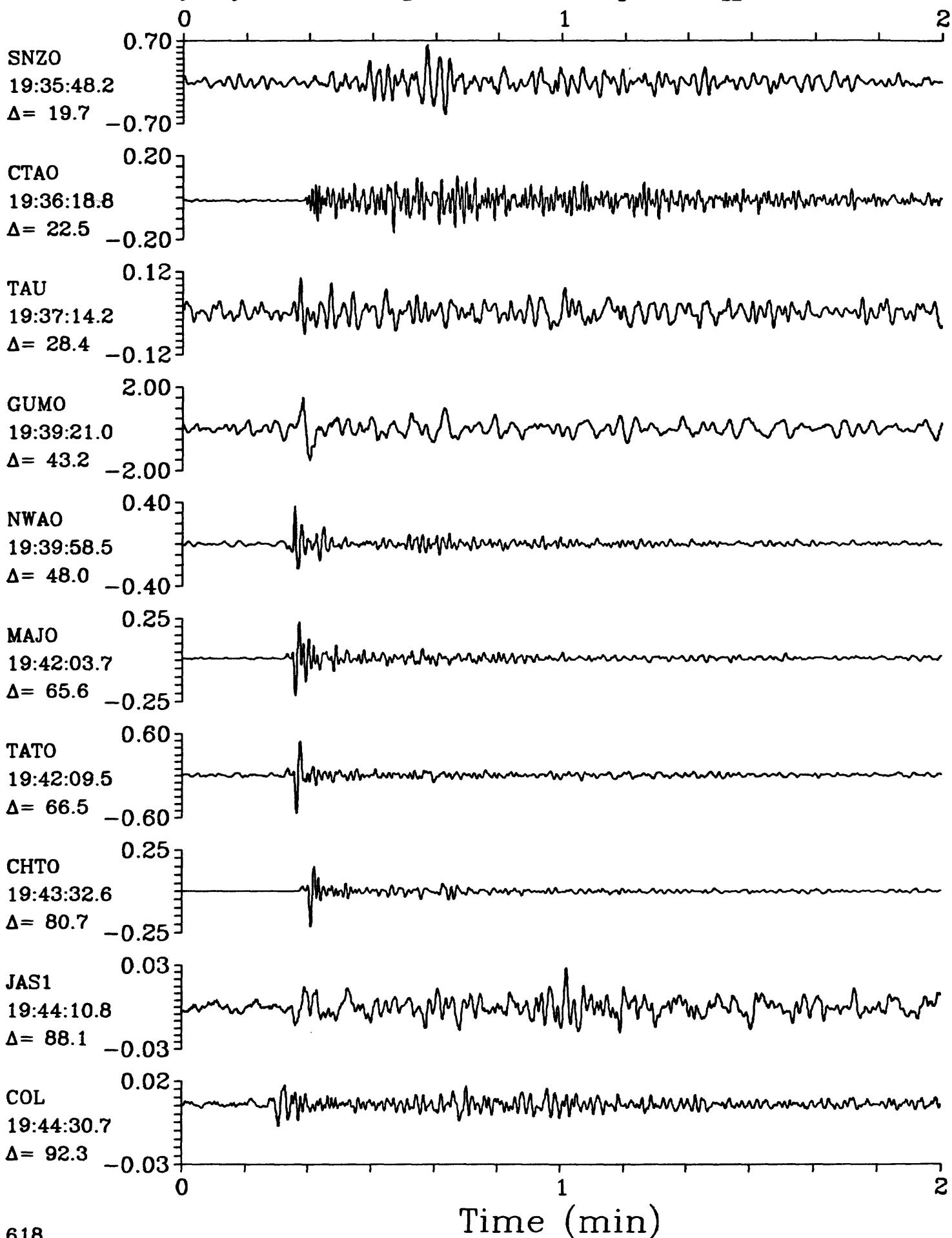
Loyalty Islands Region



SPZ

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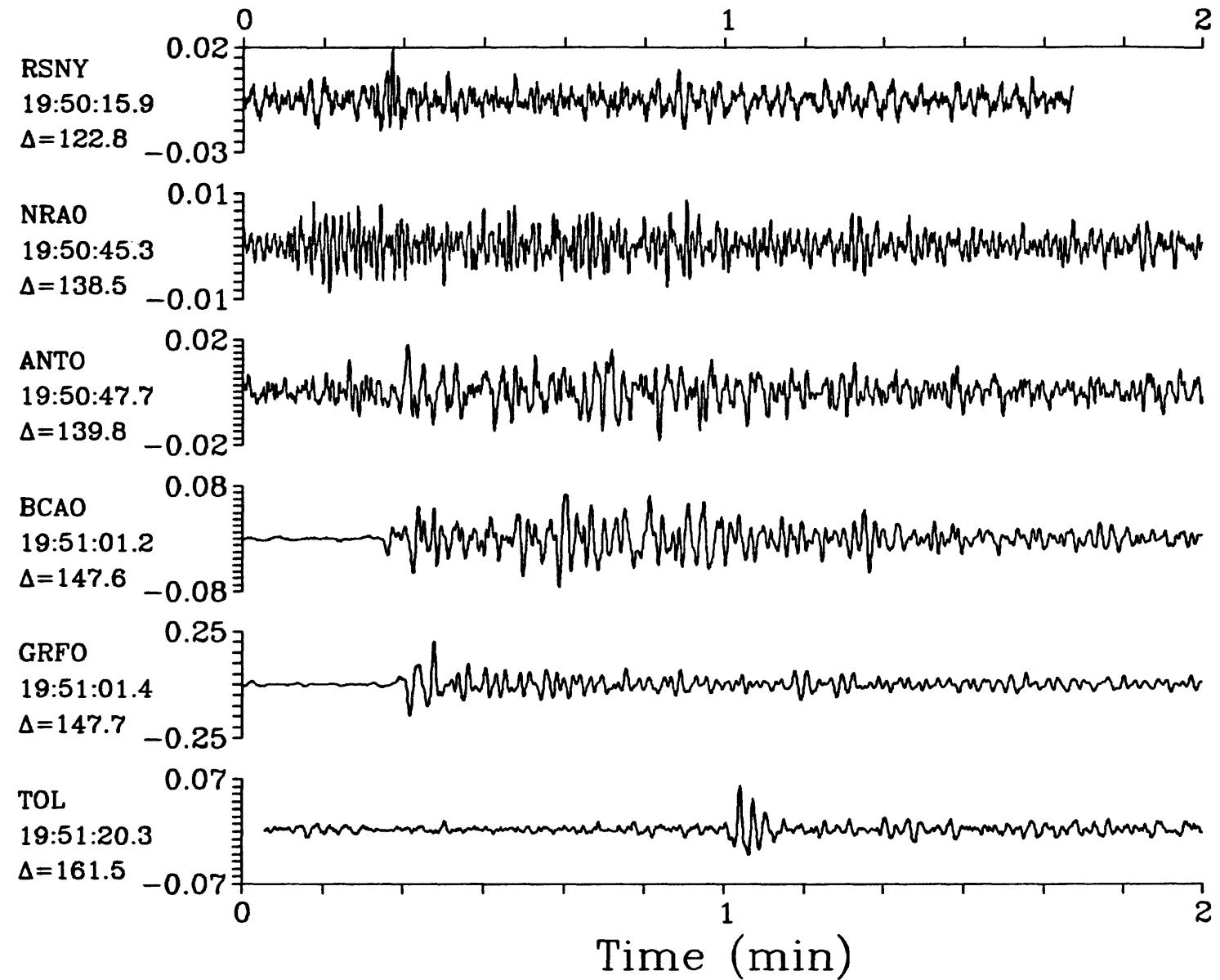
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SPZ

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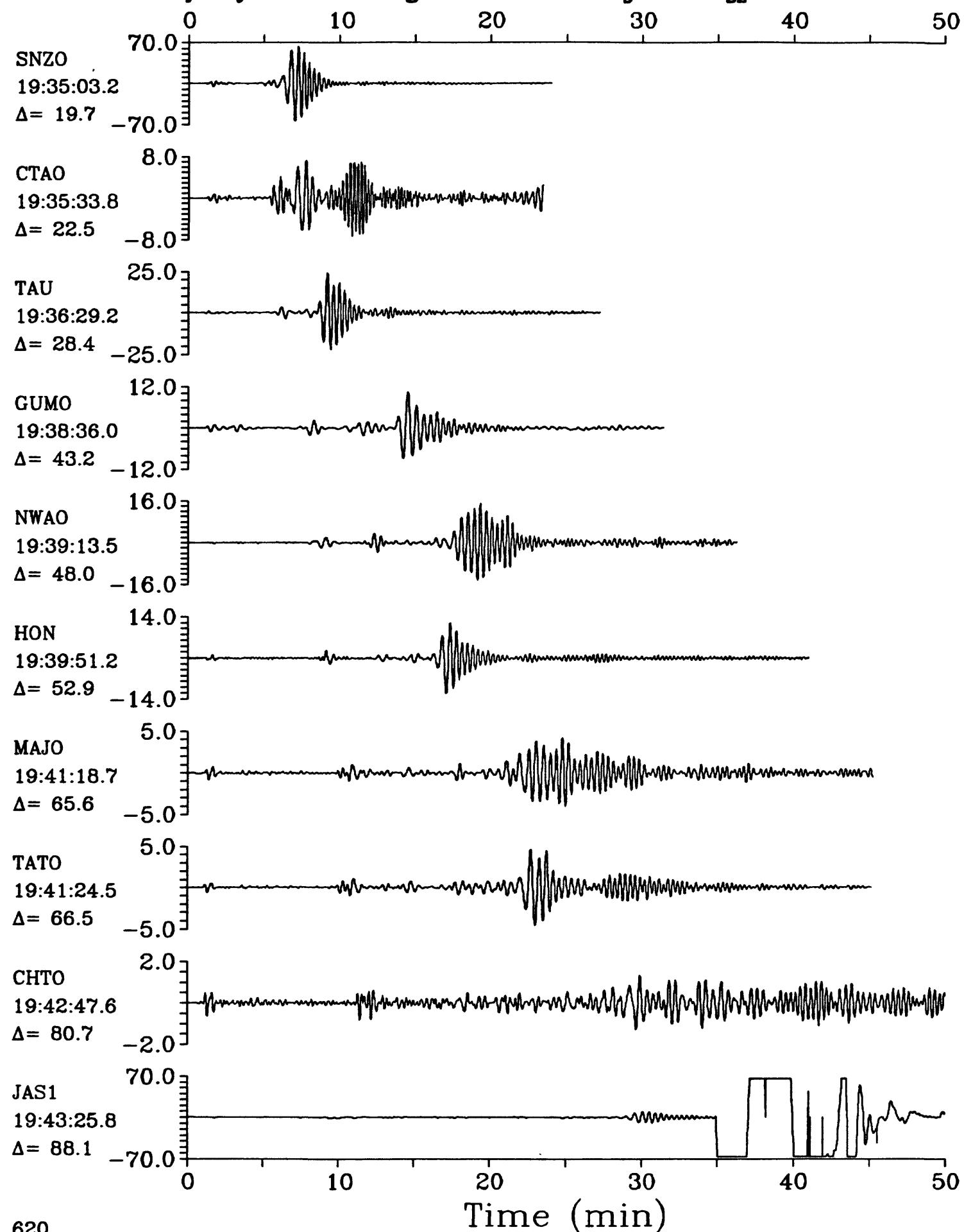
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Loyalty Islands Region $h=33.0$ $m_b=5.8$ $M_{sz}=5.7$ 

LPZ

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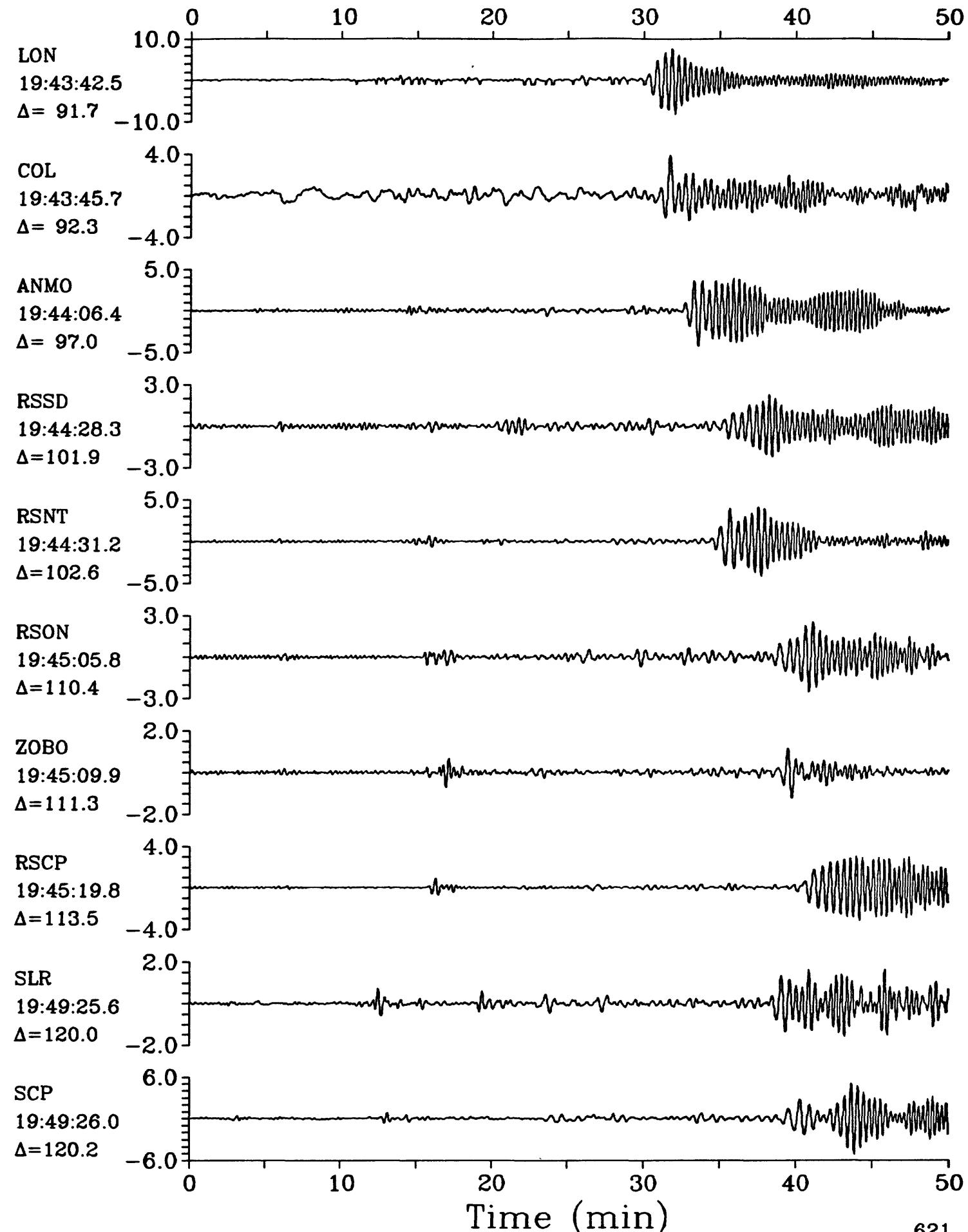
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Loyalty Islands Region $h=33.0$ $m_b=5.8$ $M_{SZ}=5.7$ 

LPZ

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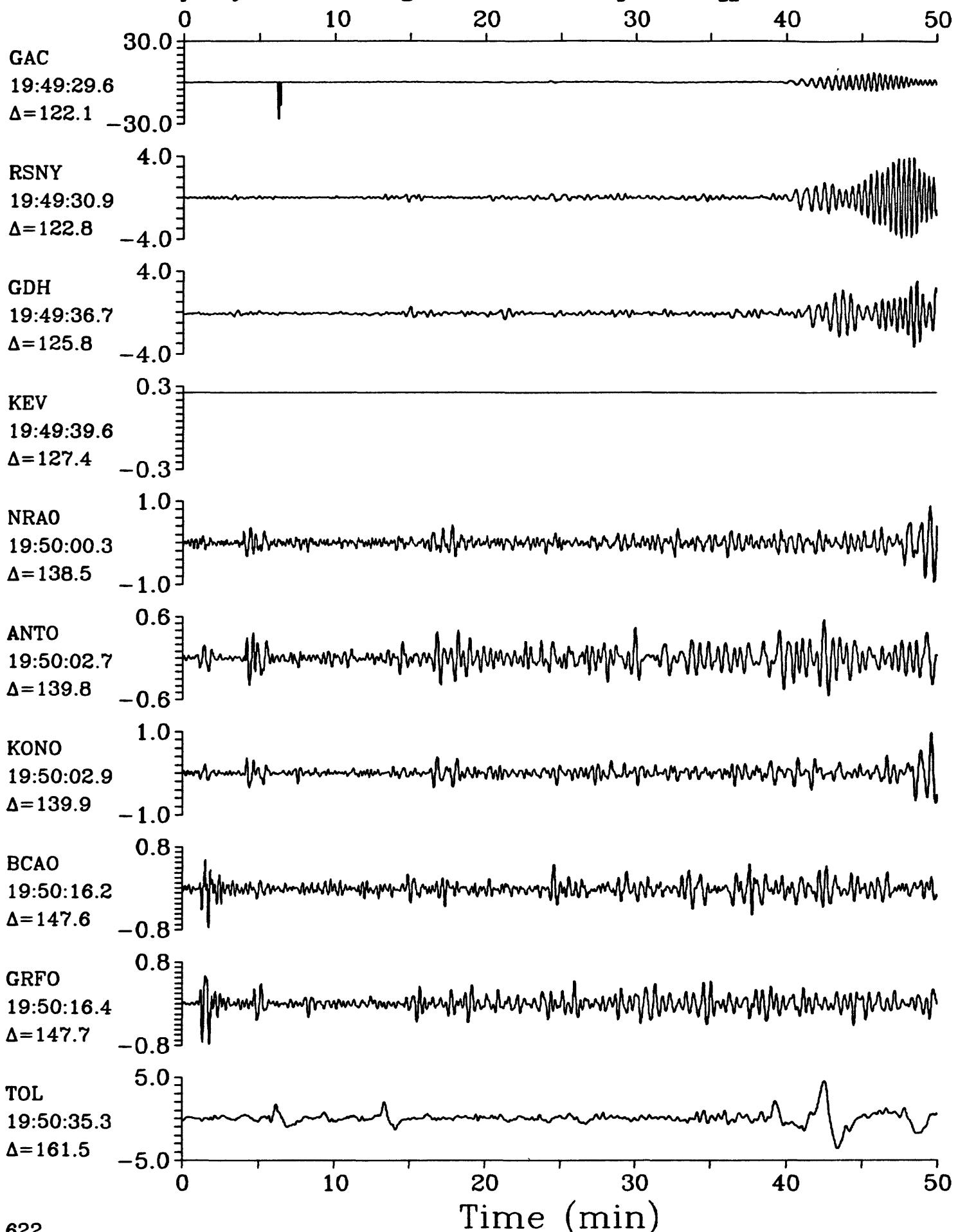
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Loyalty Islands Region $h=33.0$ $m_b=5.8$ $M_{sz}=5.7$ 

LPZ

01 May 1986 19:31:37.64

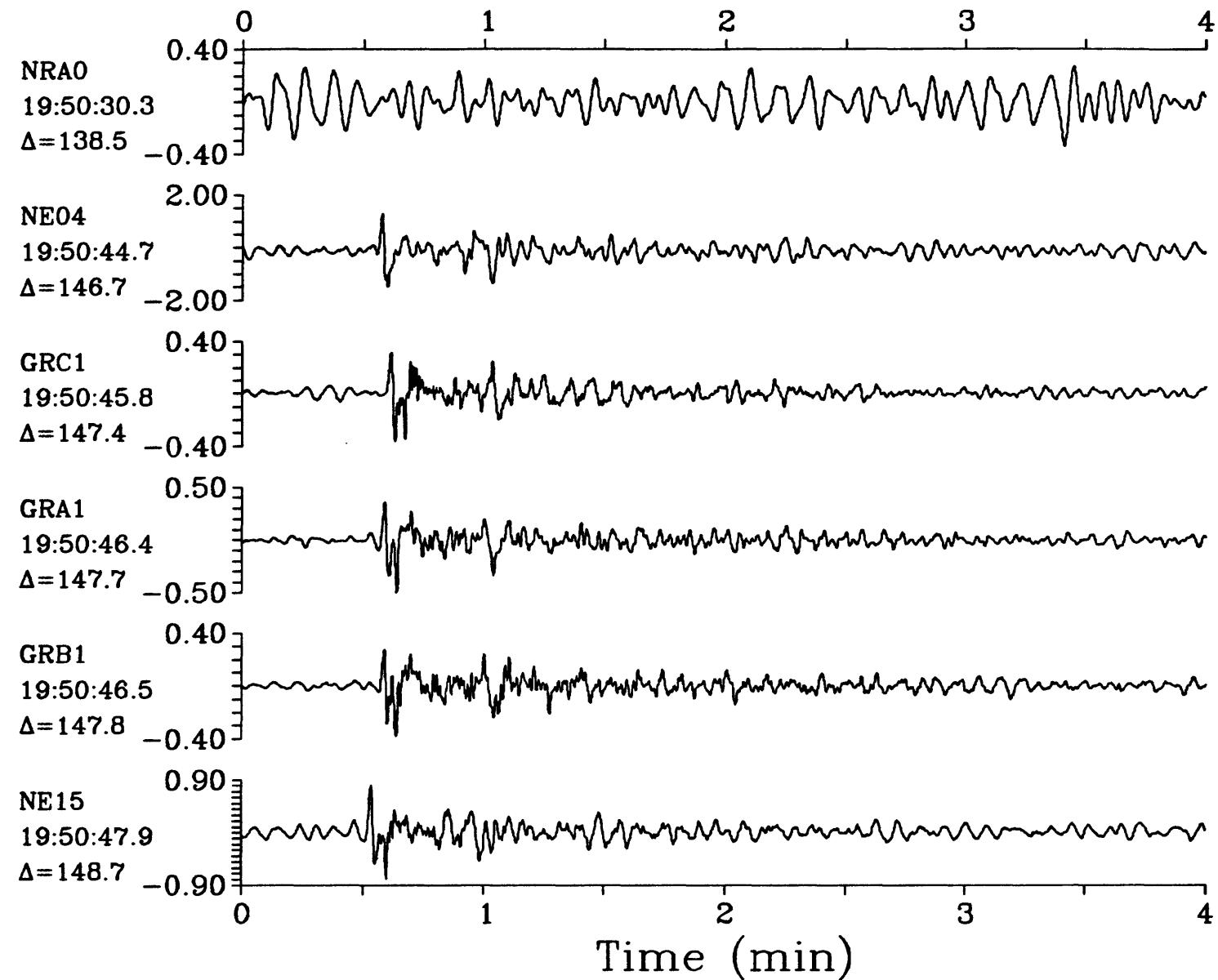
LPZ

Loyalty Islands Region $h=33.0$ $m_b=5.8$ $M_{SZ}=5.7$ 

IPZ

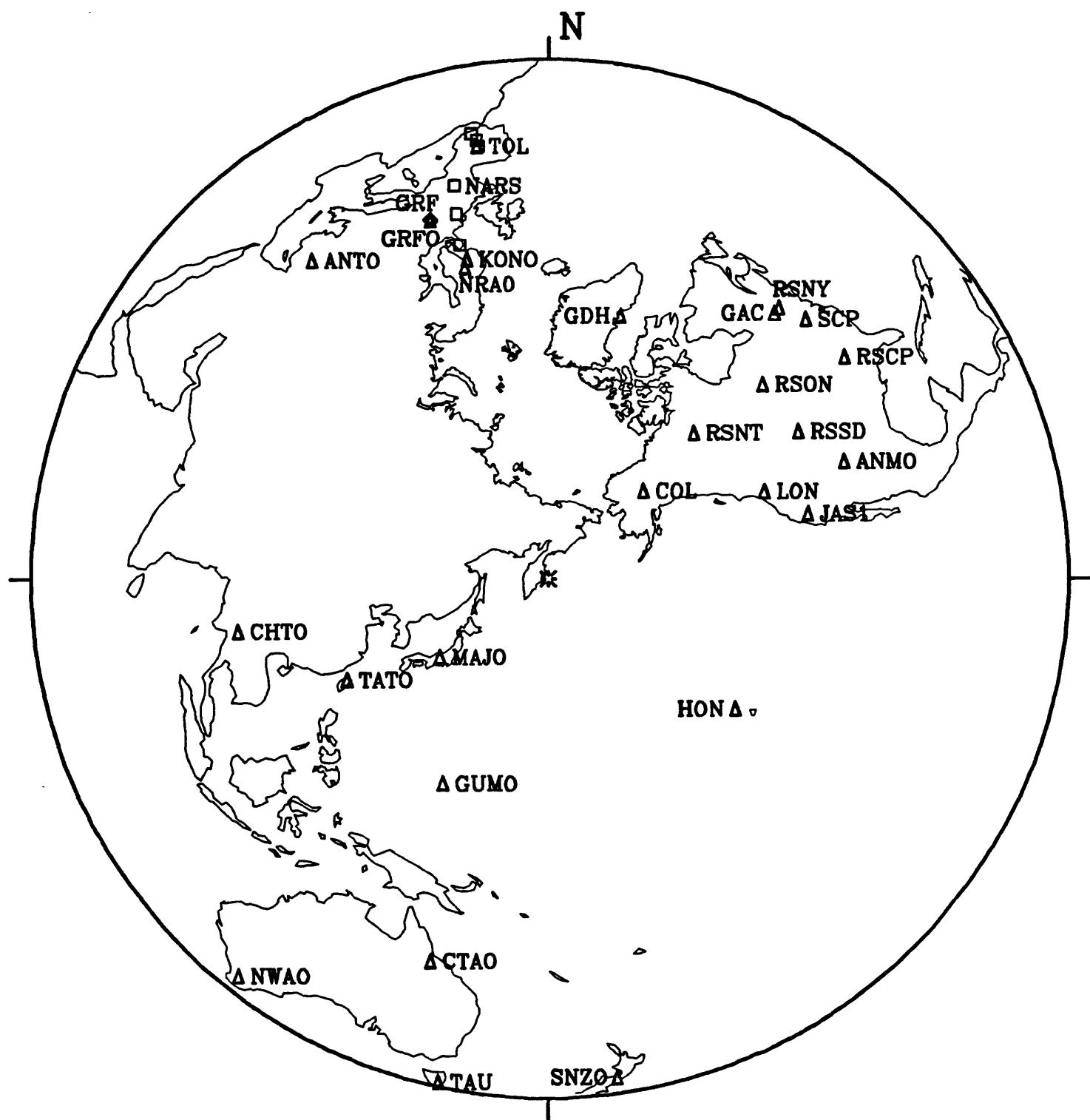
01 May 1986 19:31:37.64

IPZ

Loyalty Islands Region $h=33.0$ $m_b=5.8$ $M_{sz}=5.7$ 

02 May 1986 10:30:05.30

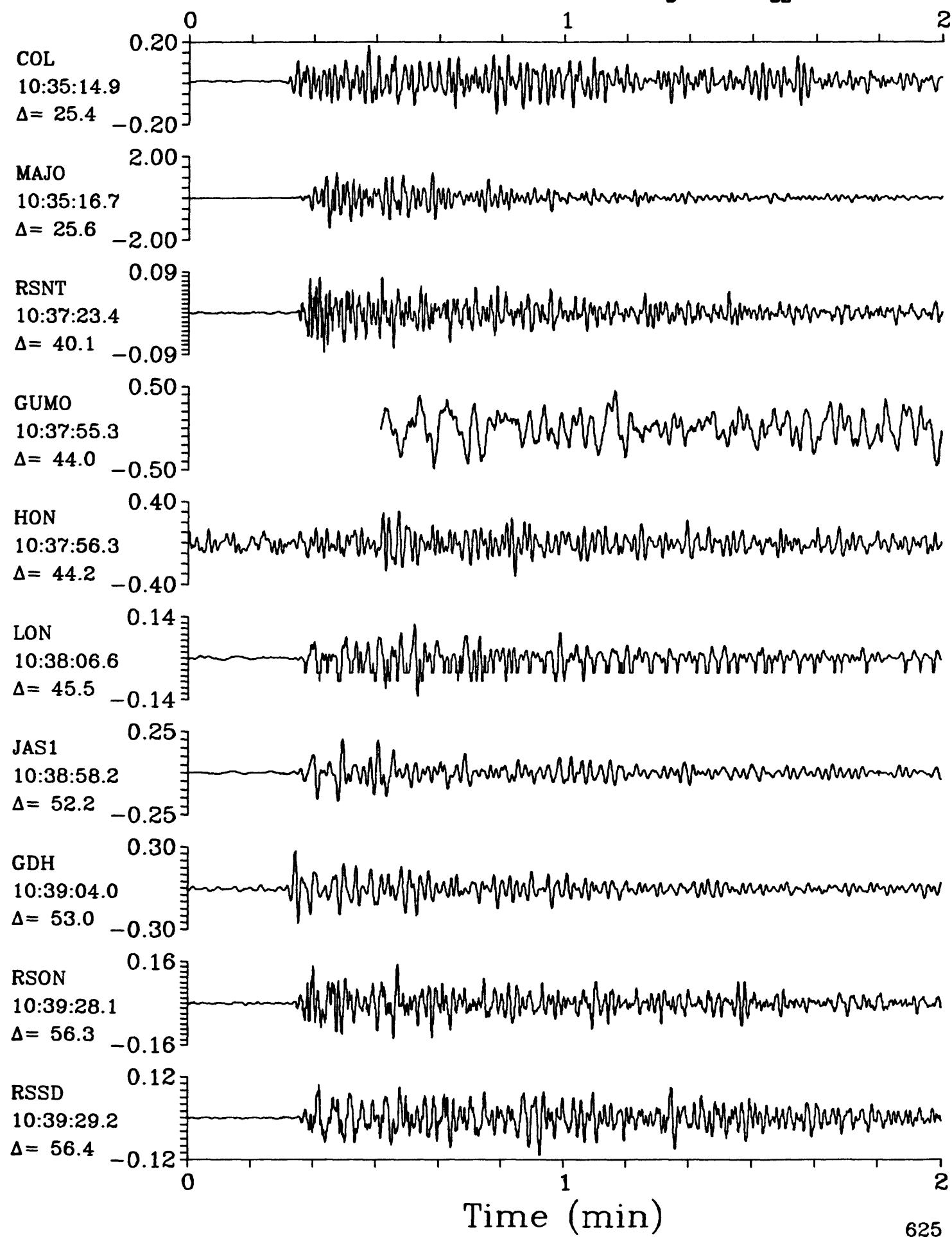
Off East Coast of Kamchatka



SPZ

02 May 1986 10:30:05.30

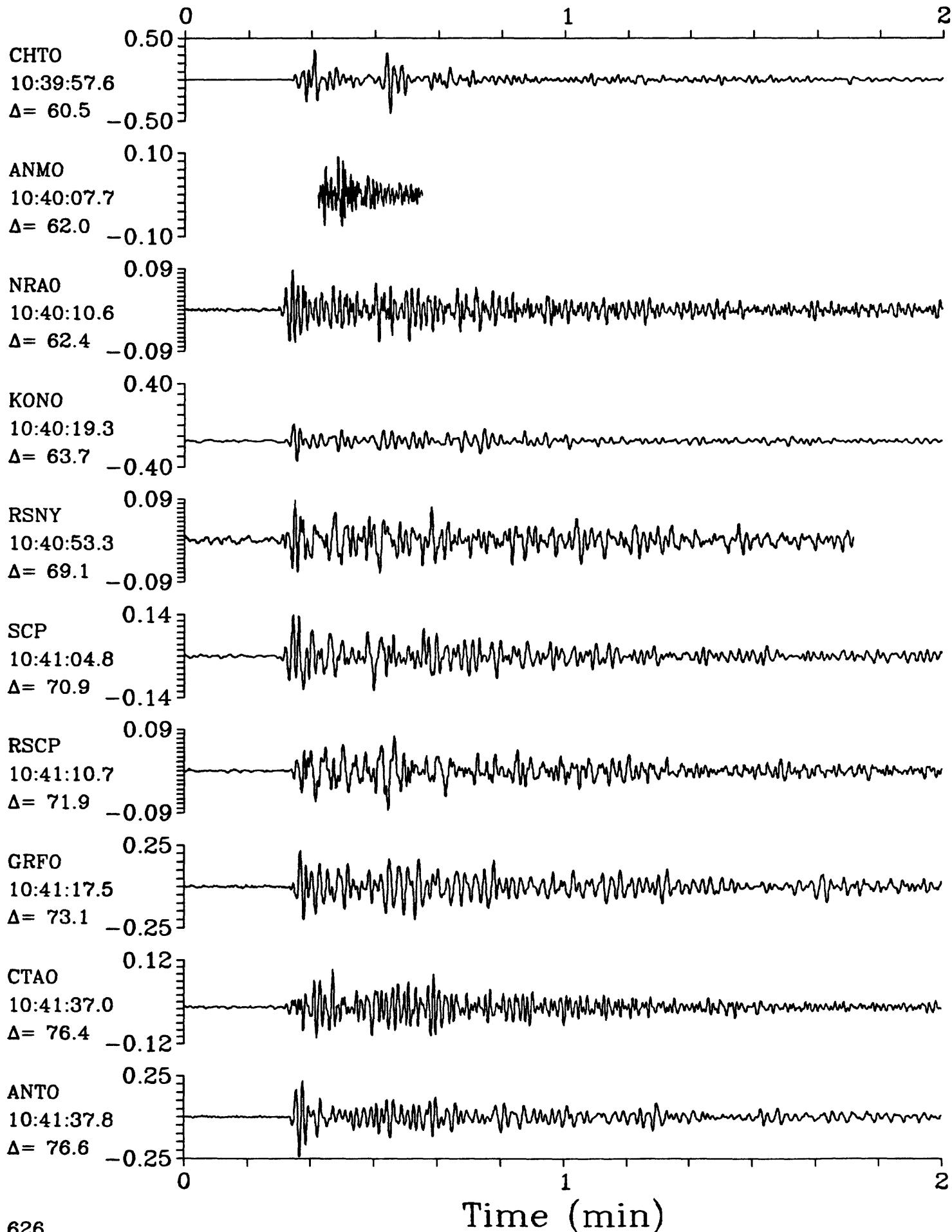
SPZ

Off East Coast of Kamchatka $h=33.0$ $m_b=5.8$ $M_{sz}=5.9$ 

SPZ

02 May 1986 10:30:05.30

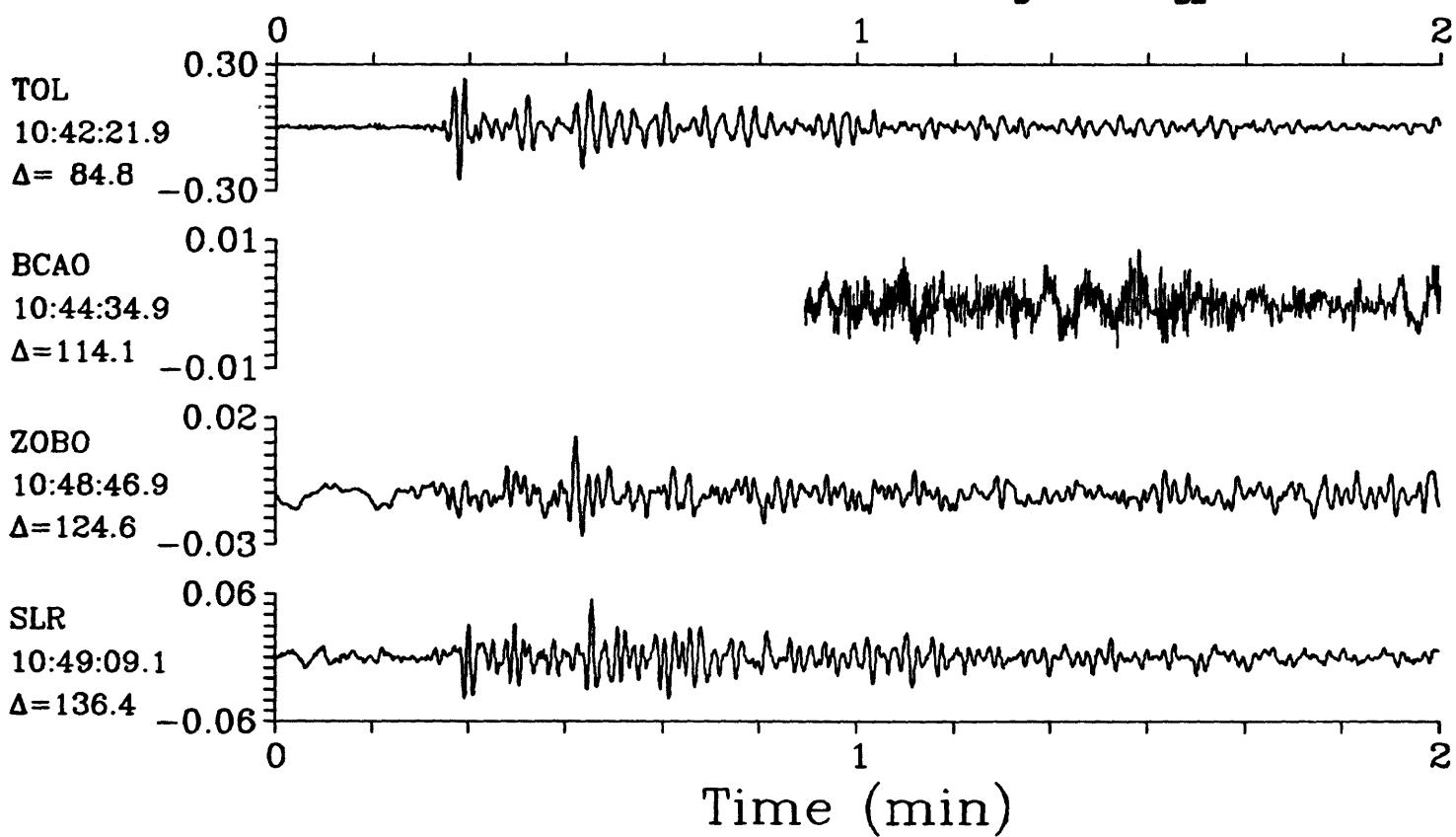
SPZ

Off East Coast of Kamchatka $h=33.0$ $m_b=5.8$ $M_{sz}=5.9$ 

SPZ

02 May 1986 10:30:05.30

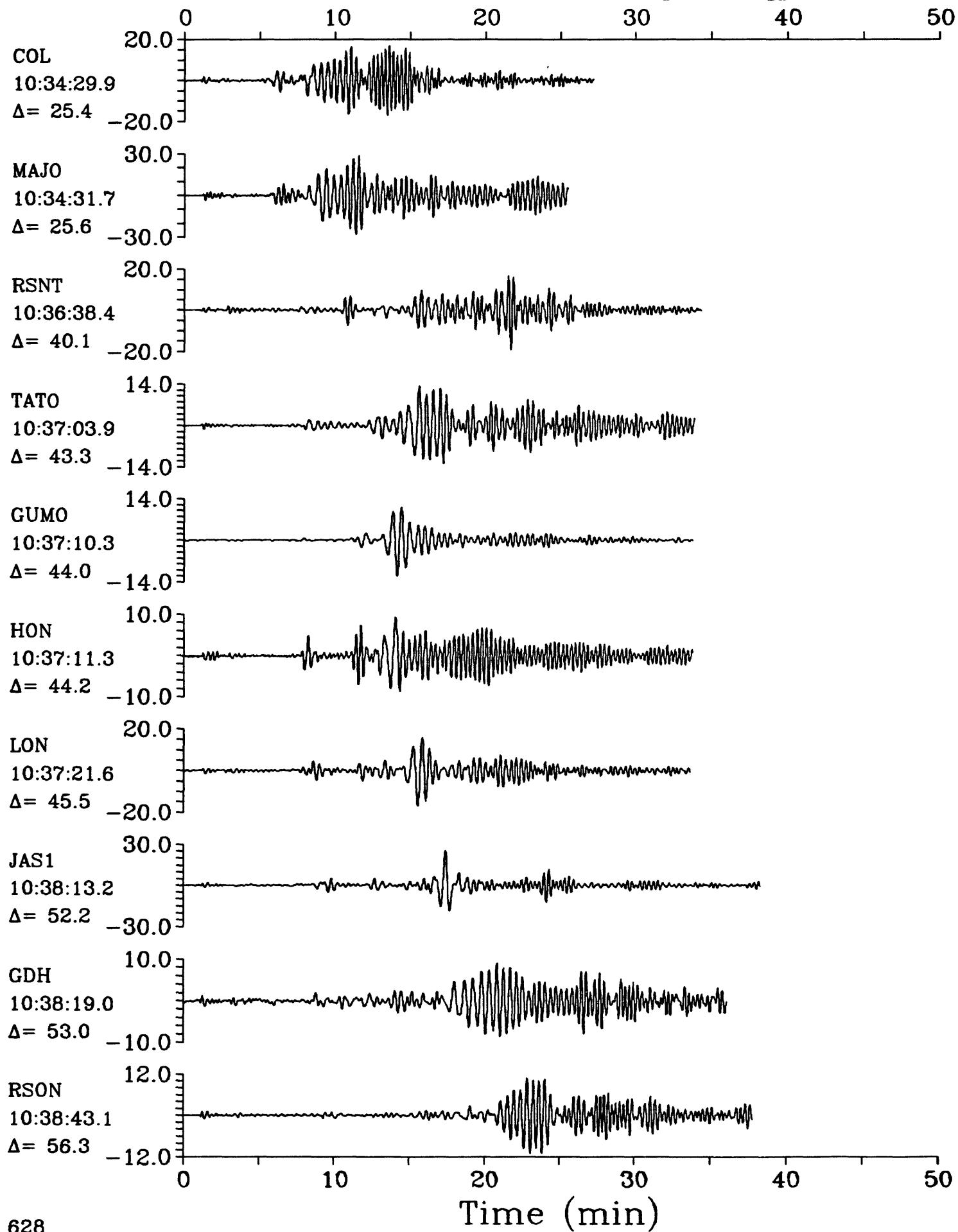
SPZ

Off East Coast of Kamchatka $h=33.0$ $m_b=5.8$ $M_{sz}=5.9$ 

LPZ

02 May 1986 10:30:05.30

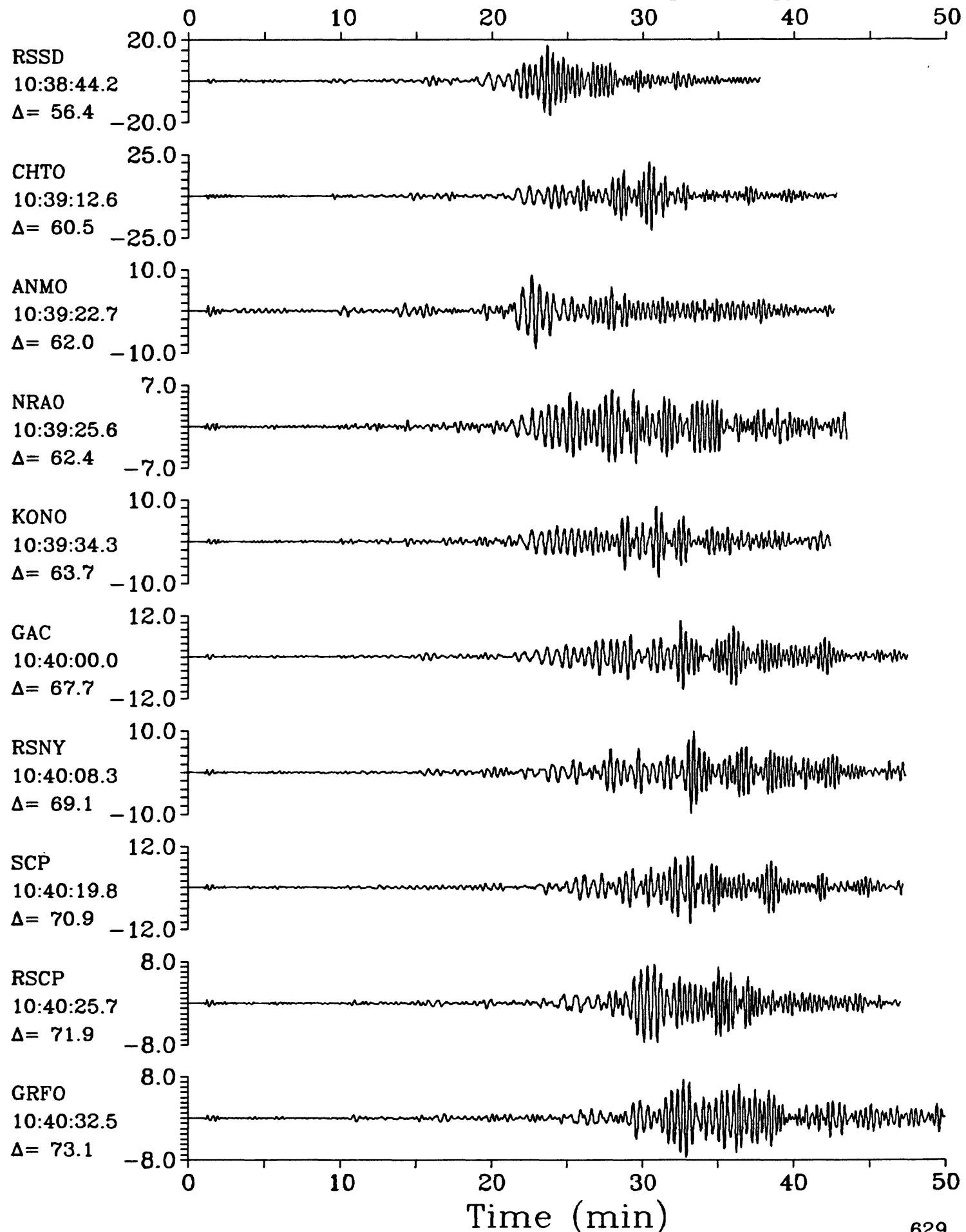
LPZ

Off East Coast of Kamchatka $h=33.0$ $m_b=5.8$ $M_{sz}=5.9$ 

LPZ

02 May 1986 10:30:05.30

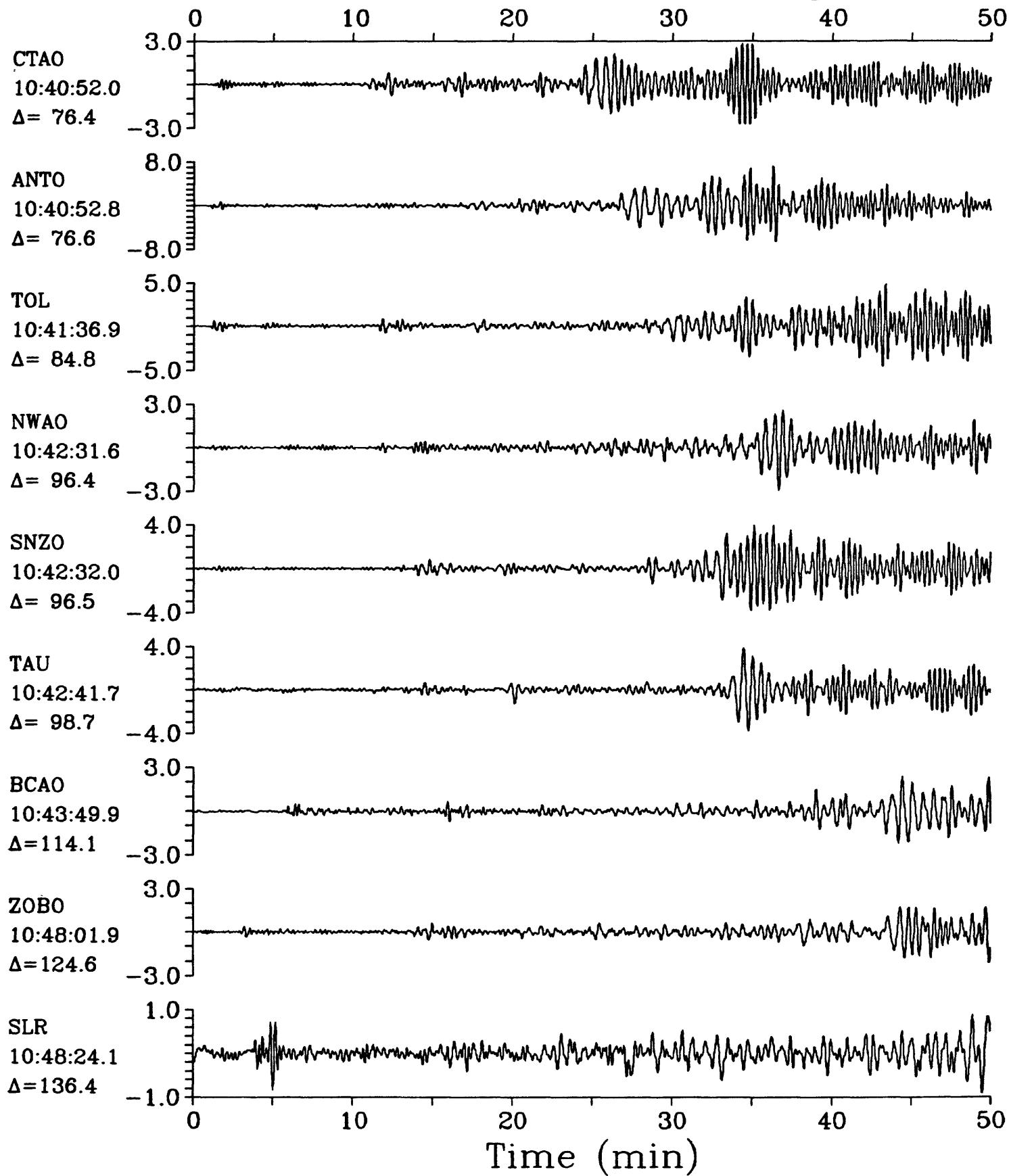
LPZ

Off East Coast of Kamchatka $h=33.0$ $m_b=5.8$ $M_{sz}=5.9$ 

LPZ

02 May 1986 10:30:05.30

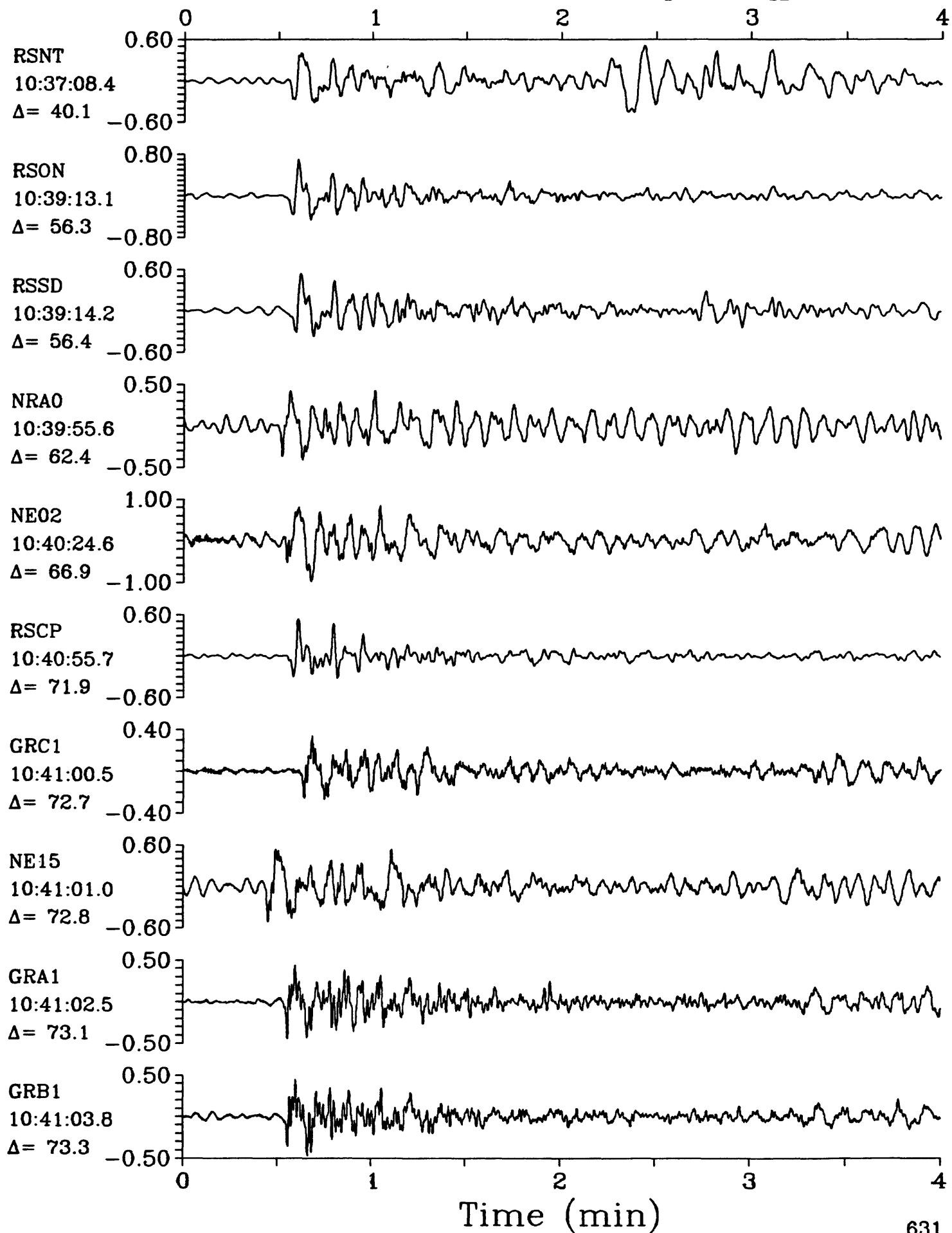
LPZ

Off East Coast of Kamchatka $h=33.0$ $m_b=5.8$ $M_{sz}=5.9$ 

IPZ

02 May 1986 10:30:05.30

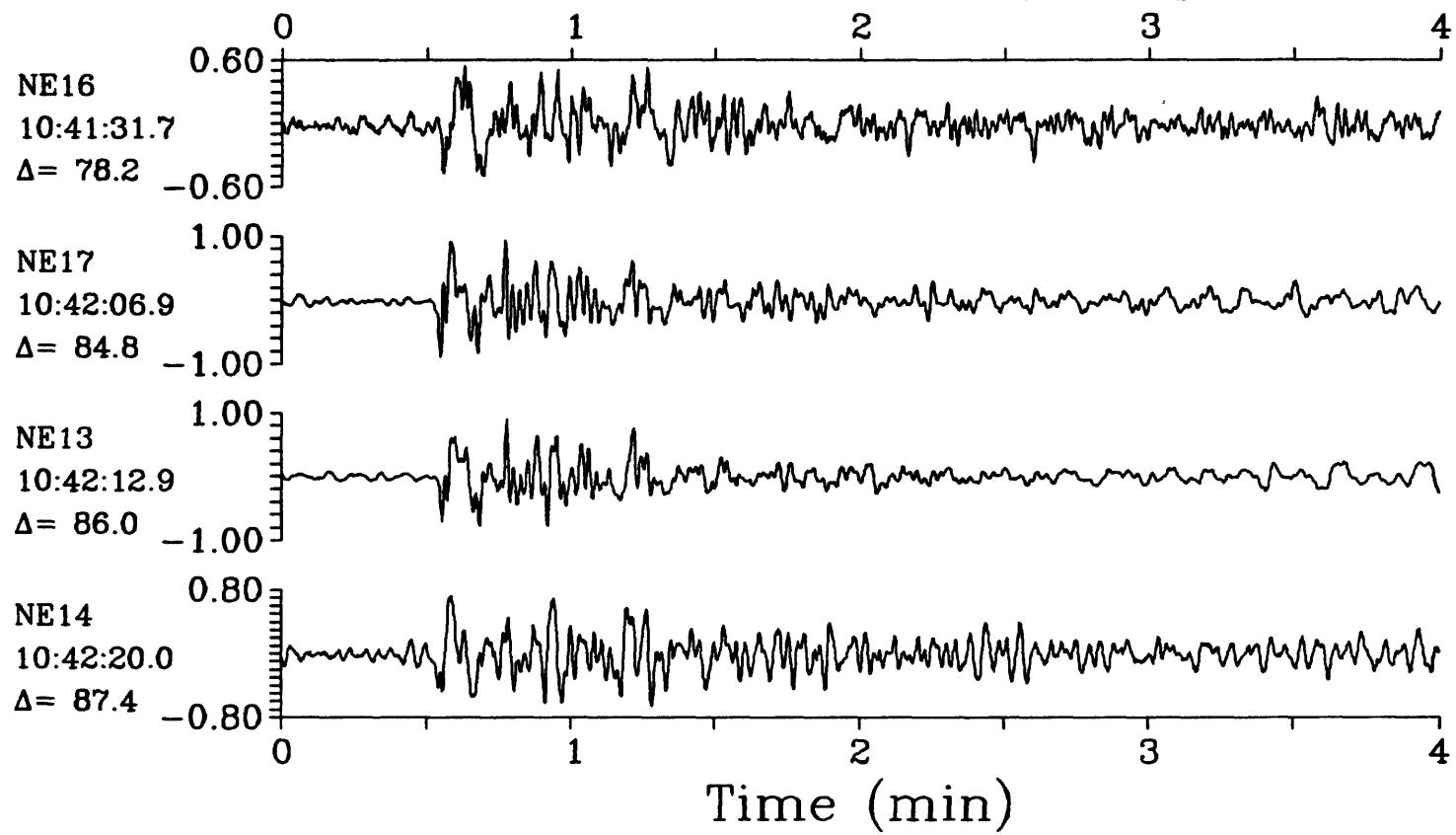
IPZ

Off East Coast of Kamchatka $h=33.0$ $m_b=5.8$ $M_{sz}=5.9$ 

IPZ

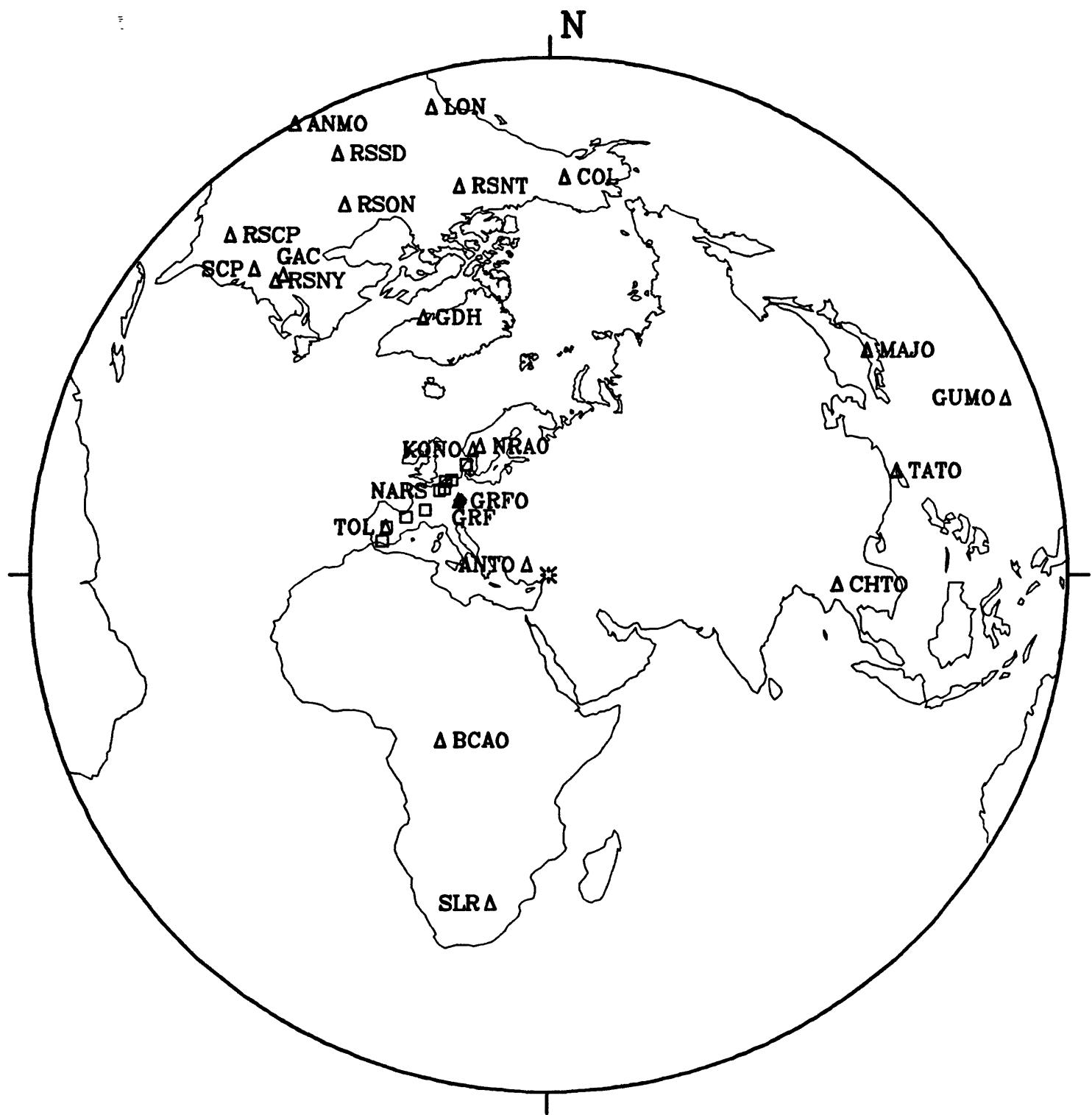
02 May 1986 10:30:05.30

IPZ

Off East Coast of Kamchatka $h=33.0$ $m_b=5.8$ $M_{sz}=5.9$ 

05 May 1986 03:35:38.80

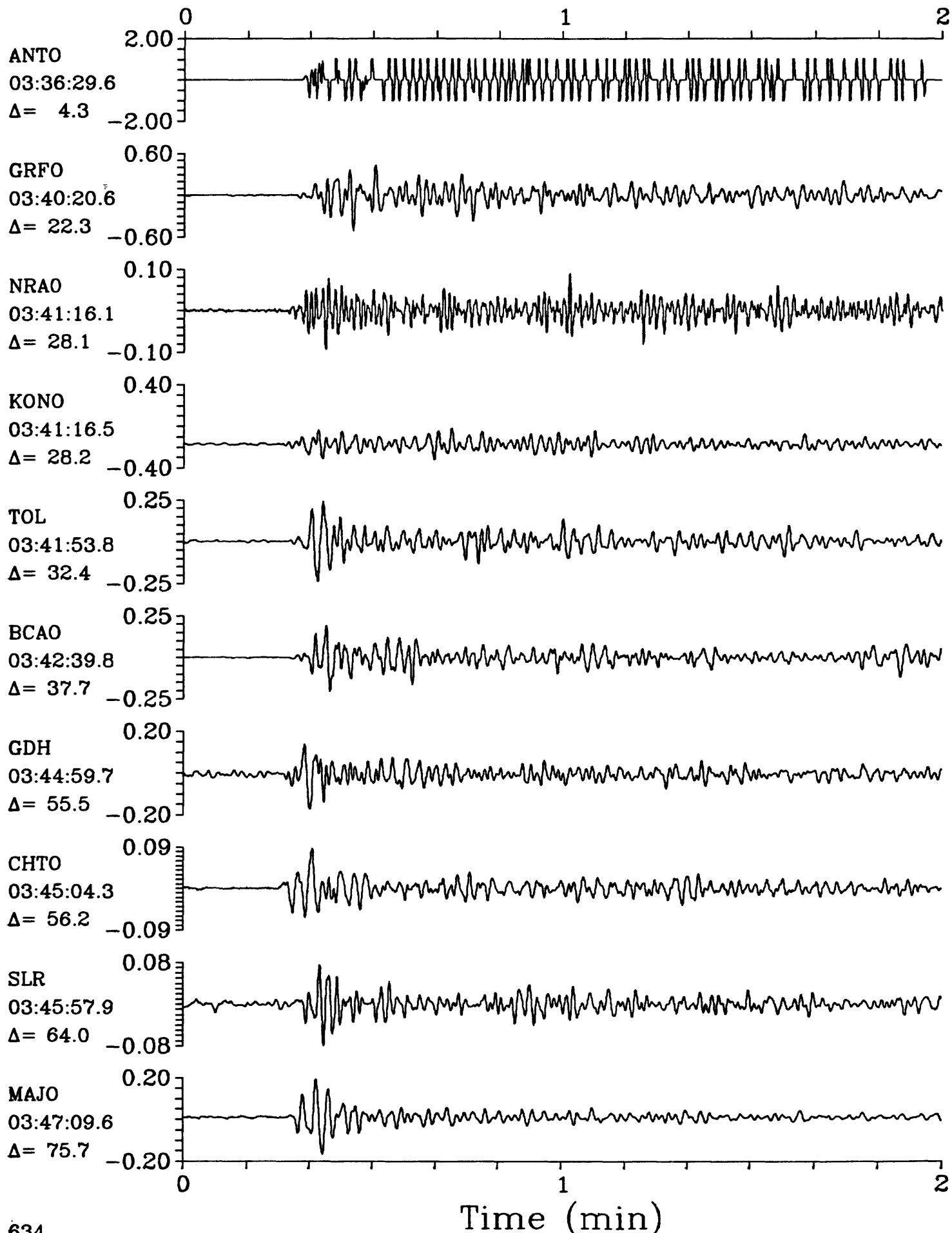
Turkey



SPZ

05 May 1986 03:35:38.80
Turkey $h=10.0$ $m_b=5.8$ $M_{SZ}=5.9$

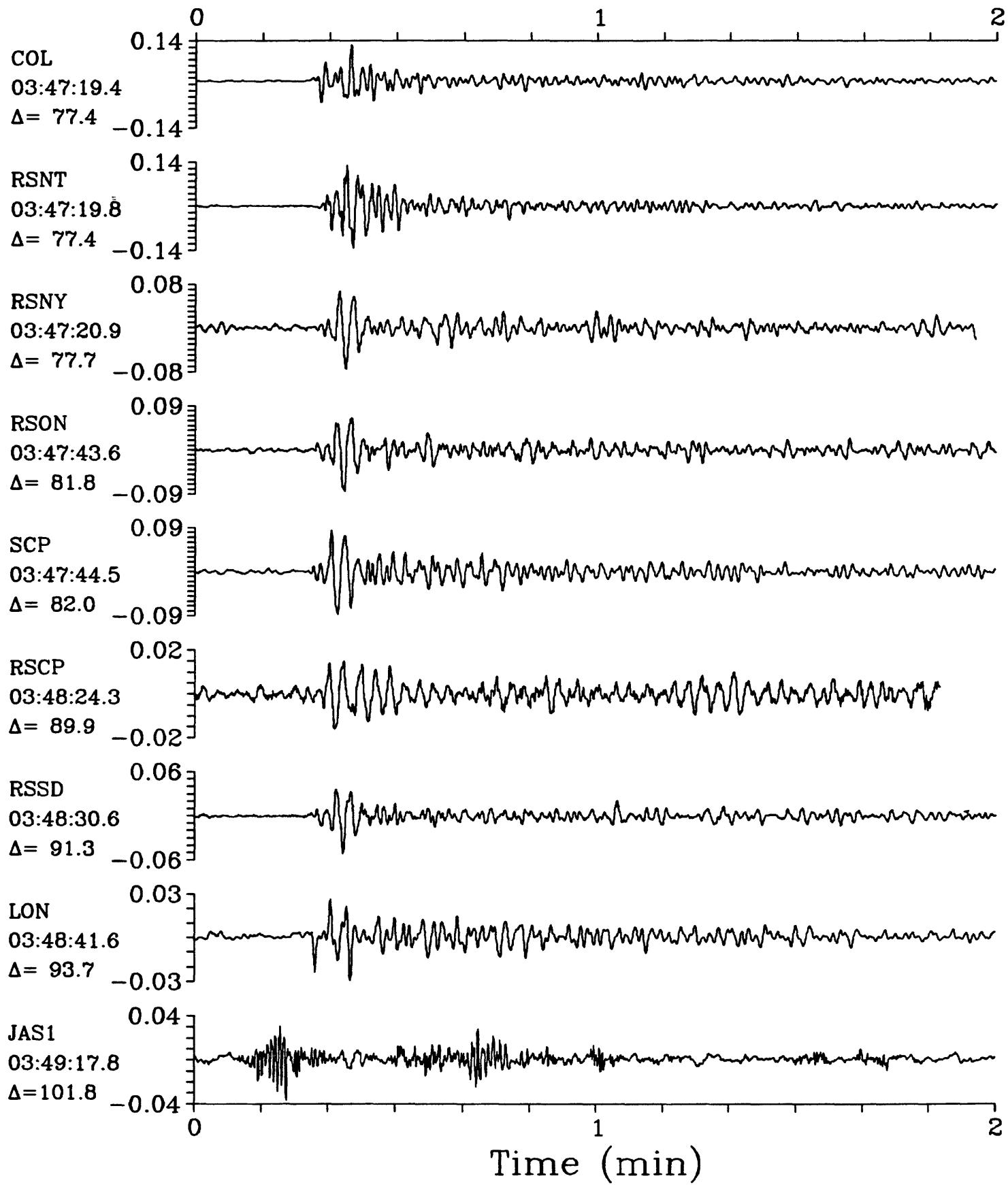
SPZ



SPZ

05 May 1986 03:35:38.80
Turkey $h=10.0$ $m_b=5.8$ $M_{SZ}=5.9$

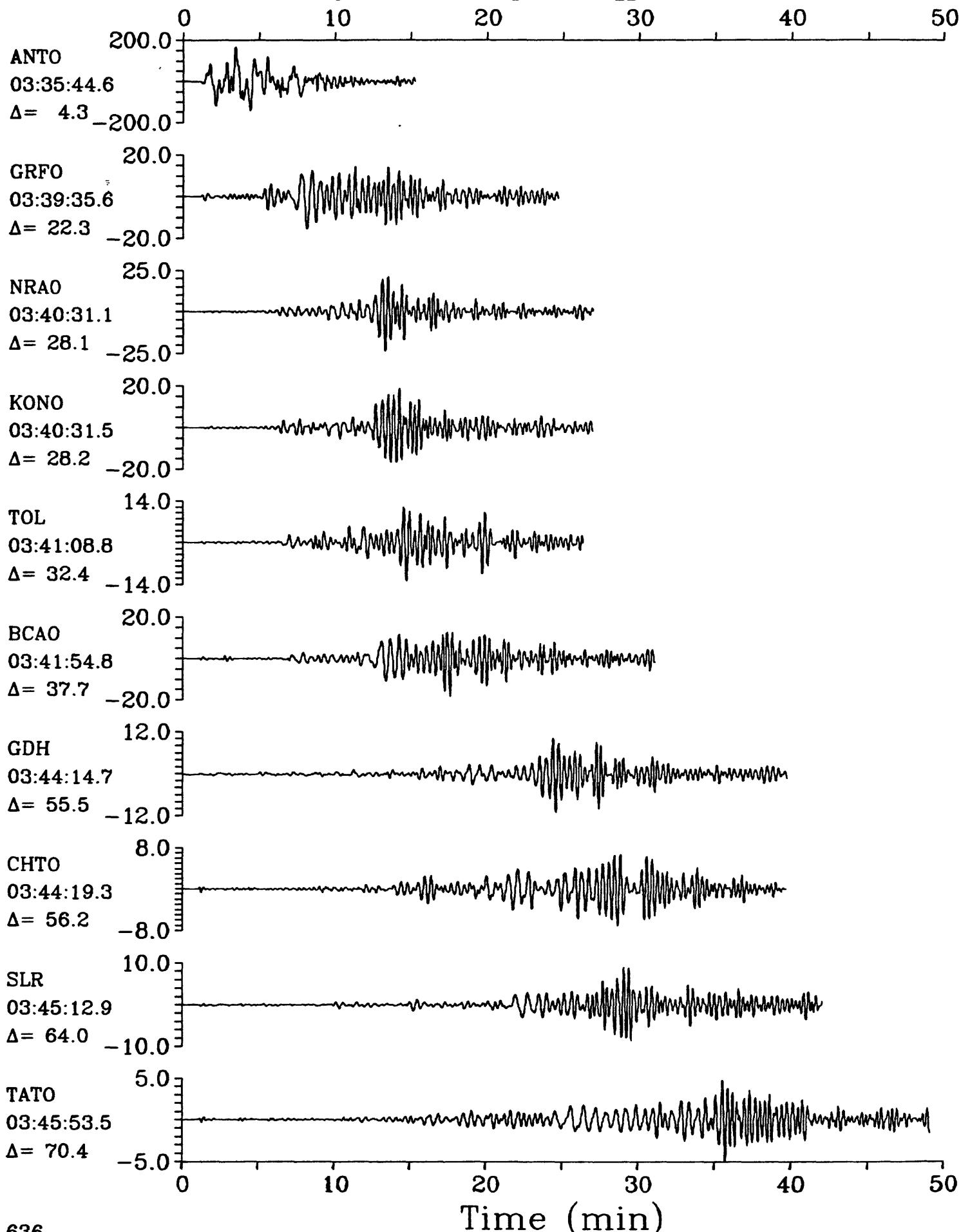
SPZ



LPZ

05 May 1986 03:35:38.80
Turkey $h=10.0$ $m_b=5.8$ $M_{SZ}=5.9$

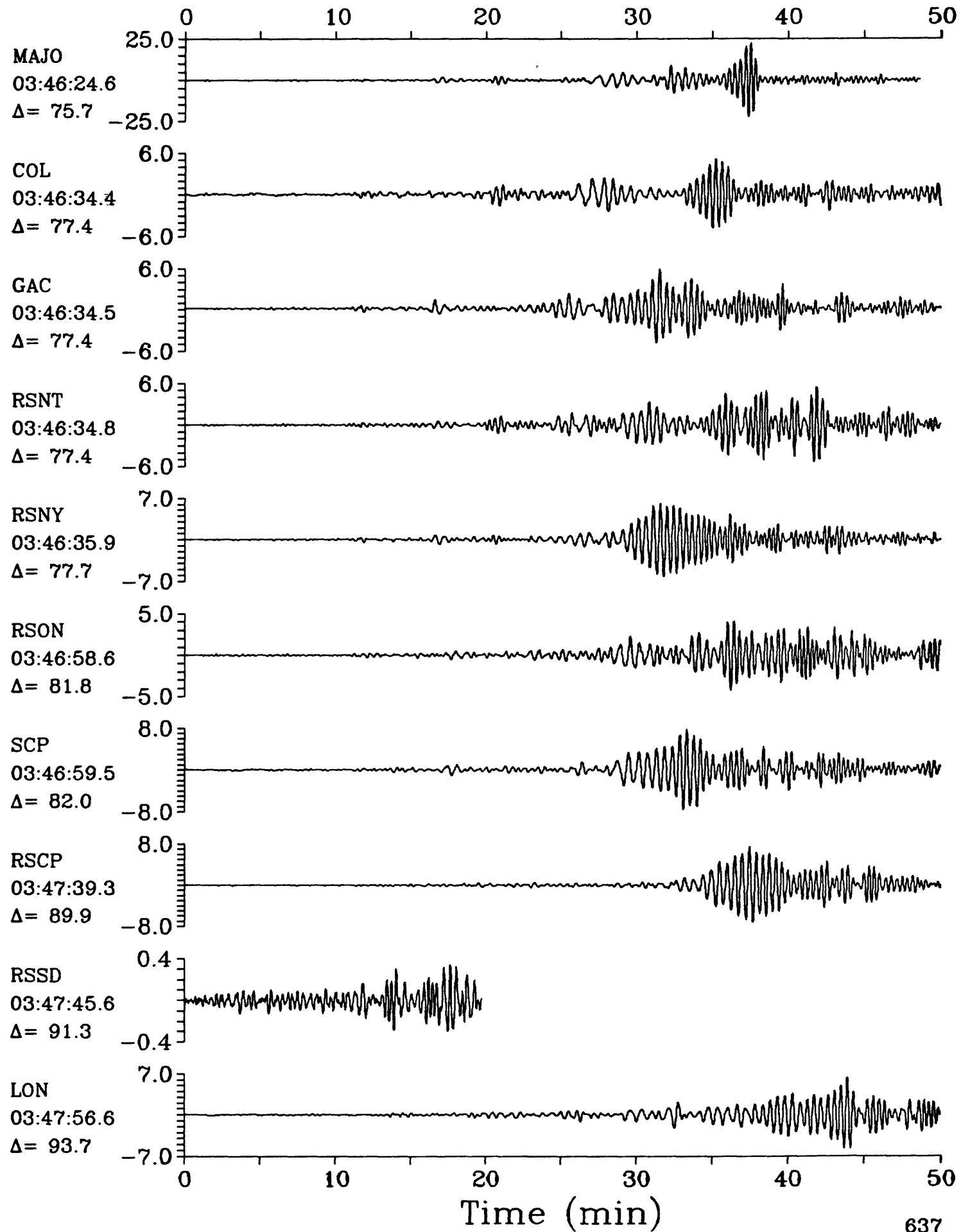
LPZ



LPZ

05 May 1986 03:35:38.80
Turkey $h=10.0$ $m_b=5.8$ $M_{SZ}=5.9$

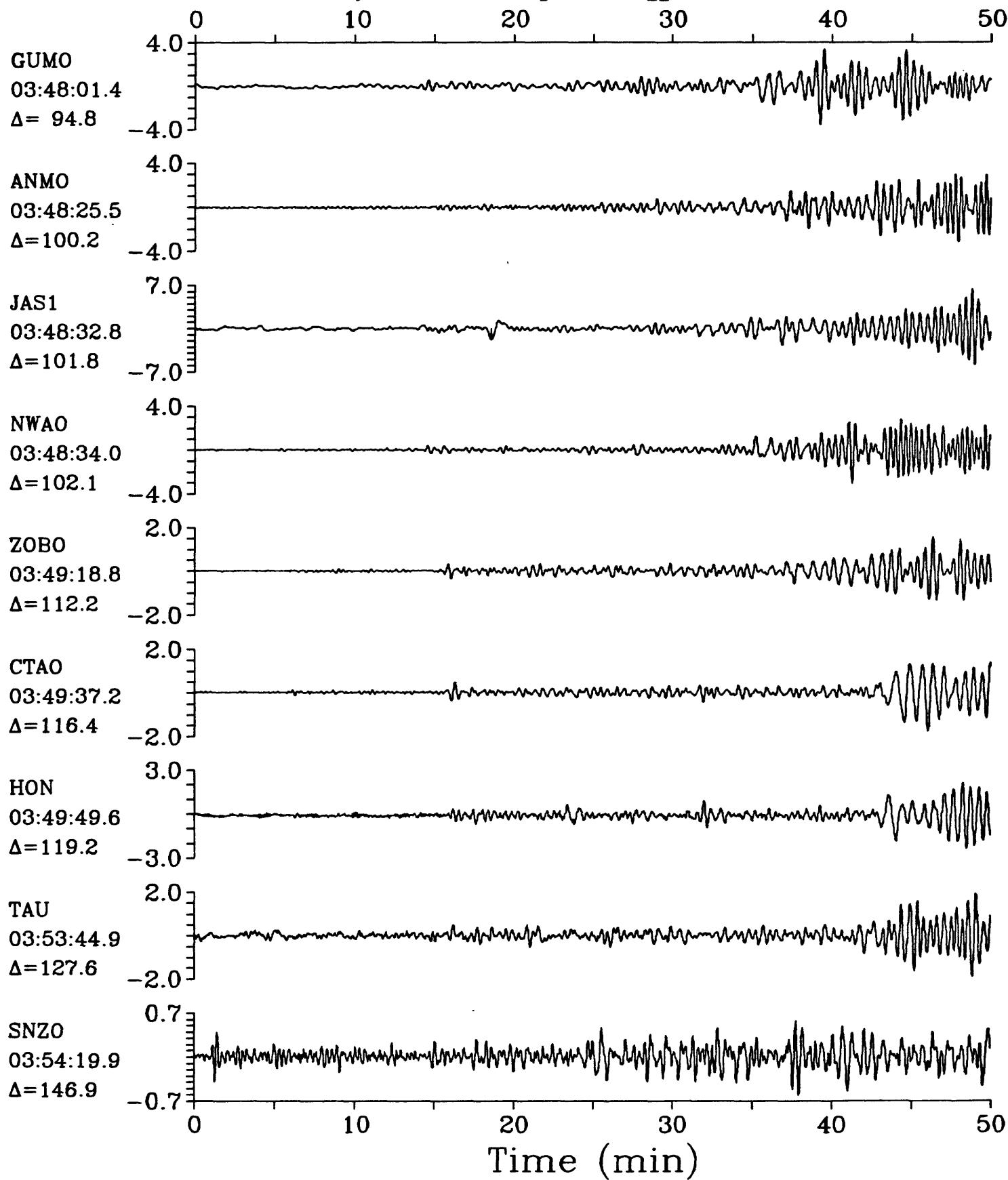
LPZ



LPZ

05 May 1986 03:35:38.80
Turkey $h=10.0$ $m_b=5.8$ $M_{sz}=5.9$

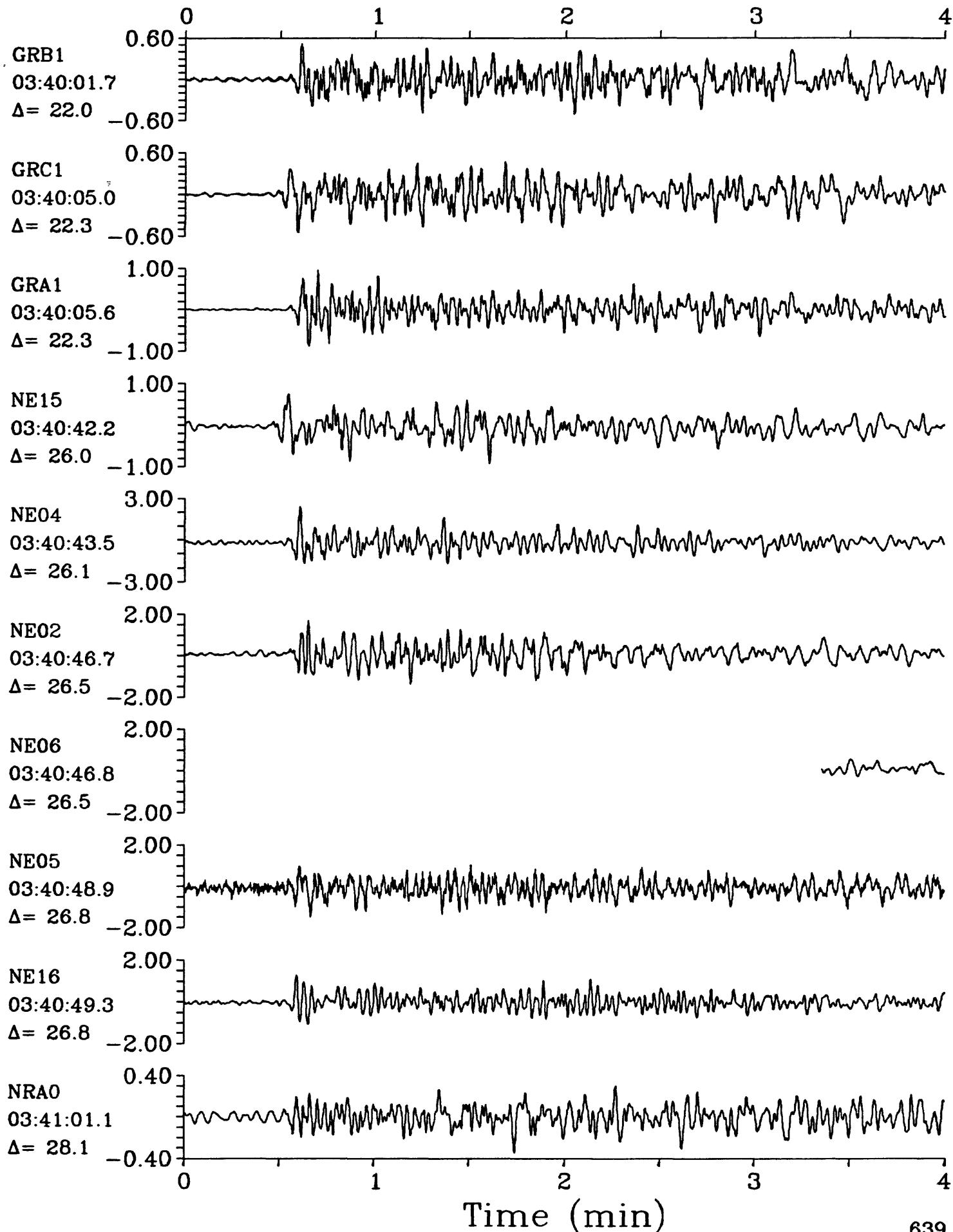
LPZ



IPZ

05 May 1986 03:35:38.80
Turkey $h=10.0$ $m_b=5.8$ $M_{SZ}=5.9$

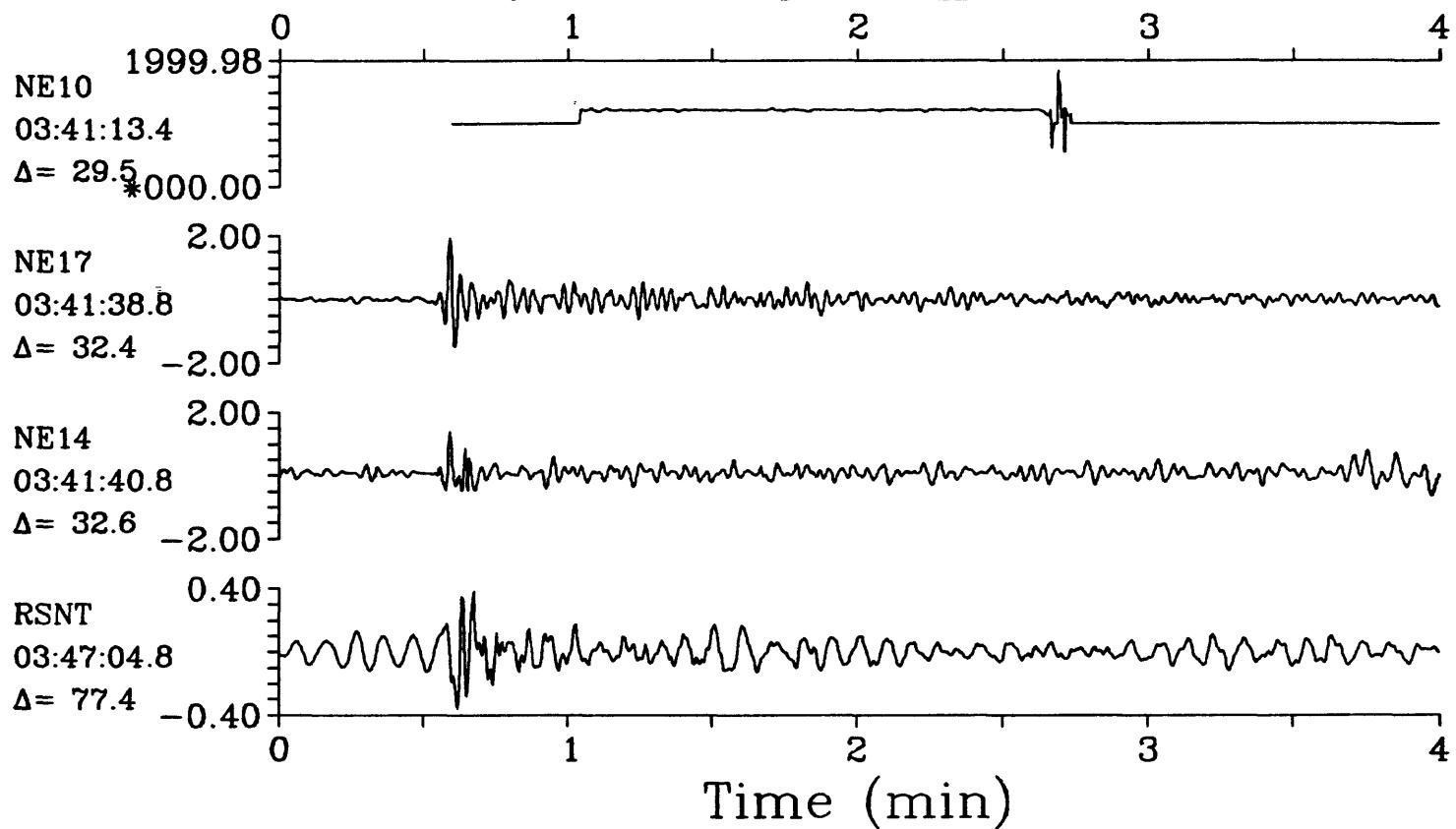
IPZ



IPZ

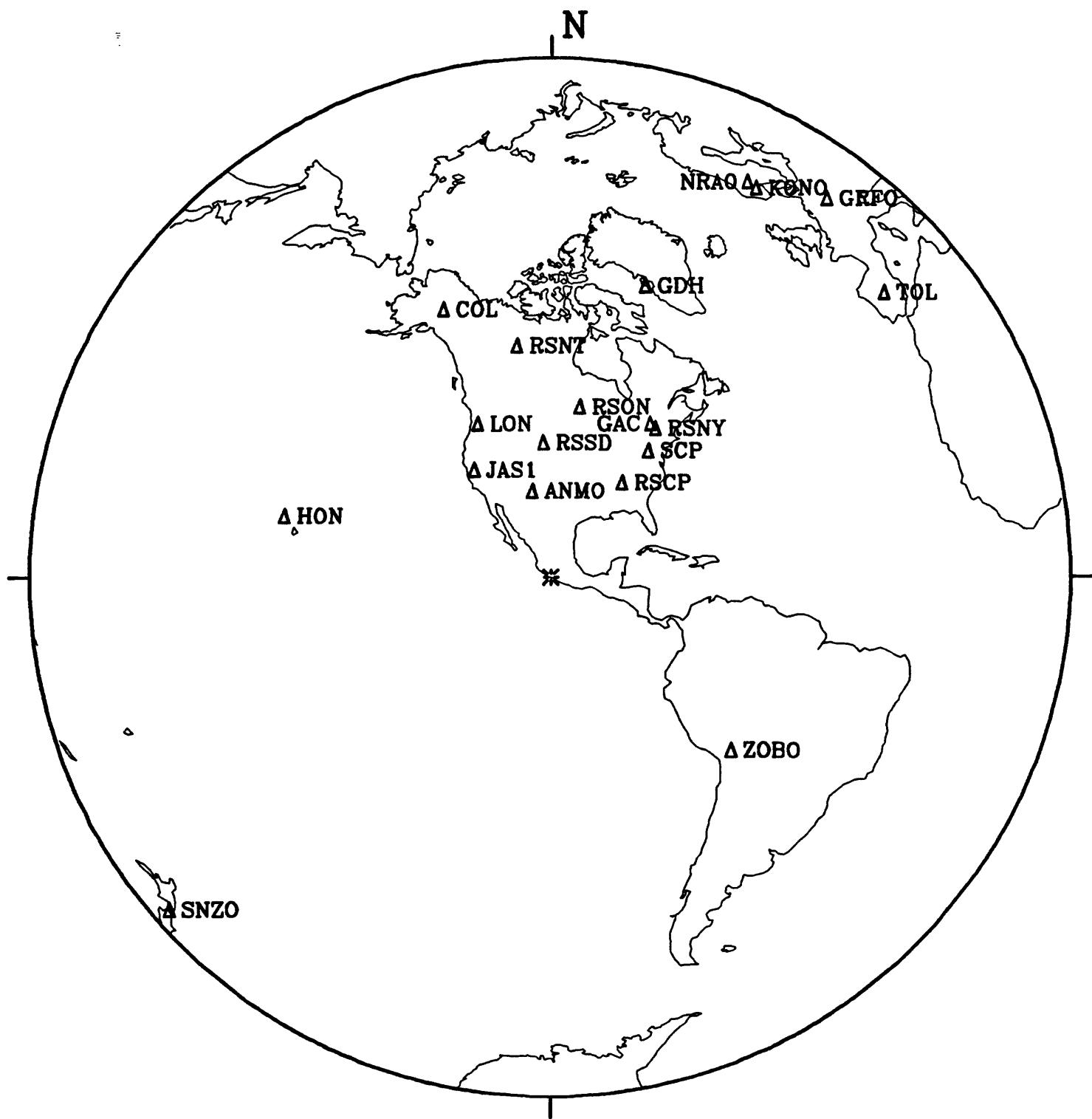
05 May 1986 03:35:38.80
Turkey $h=10.0$ $m_b=5.8$ $M_{sz}=5.9$

IPZ



05 May 1986 05:46:37.19

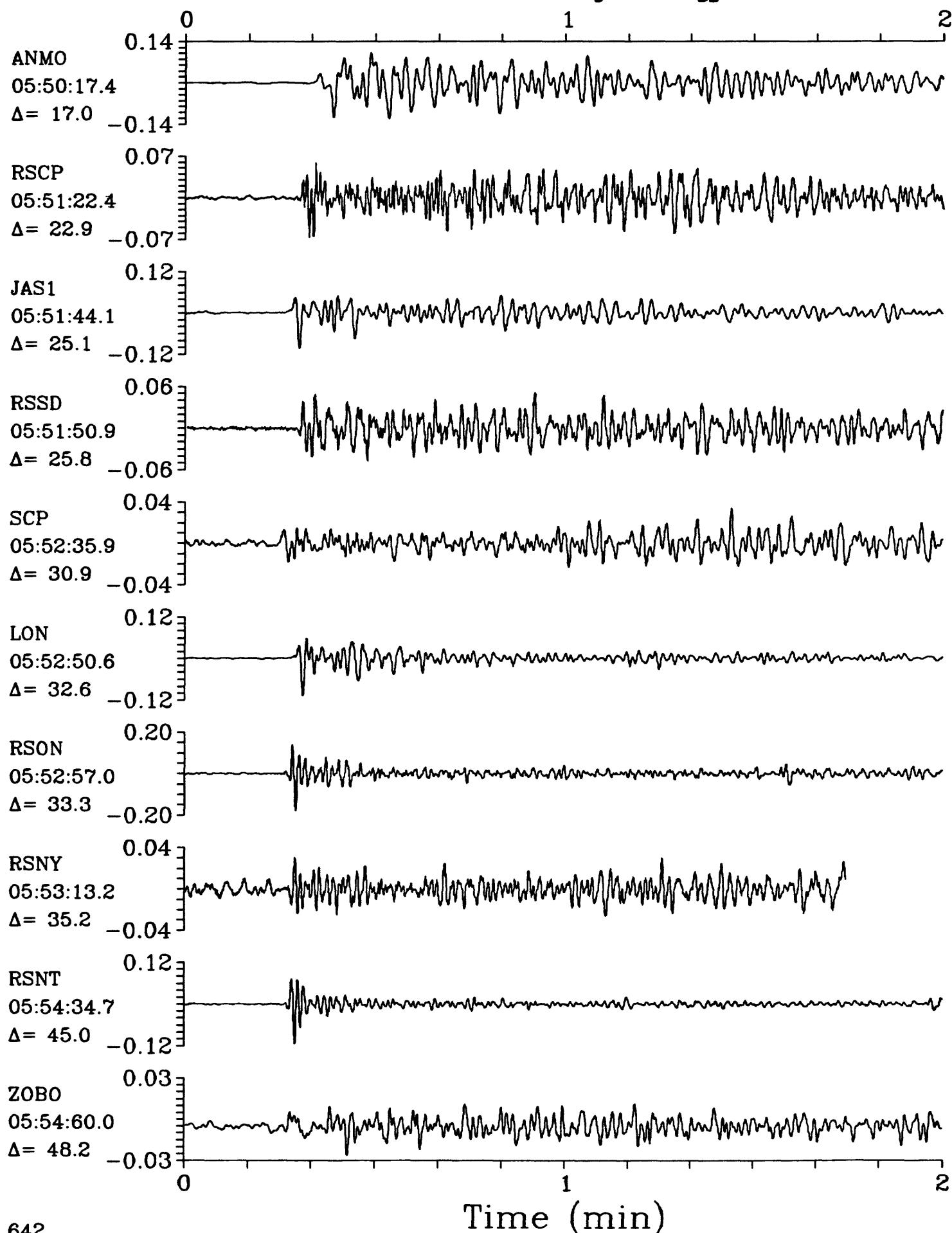
Michoacan, Mexico



SPZ

05 May 1986 05:46:37.19

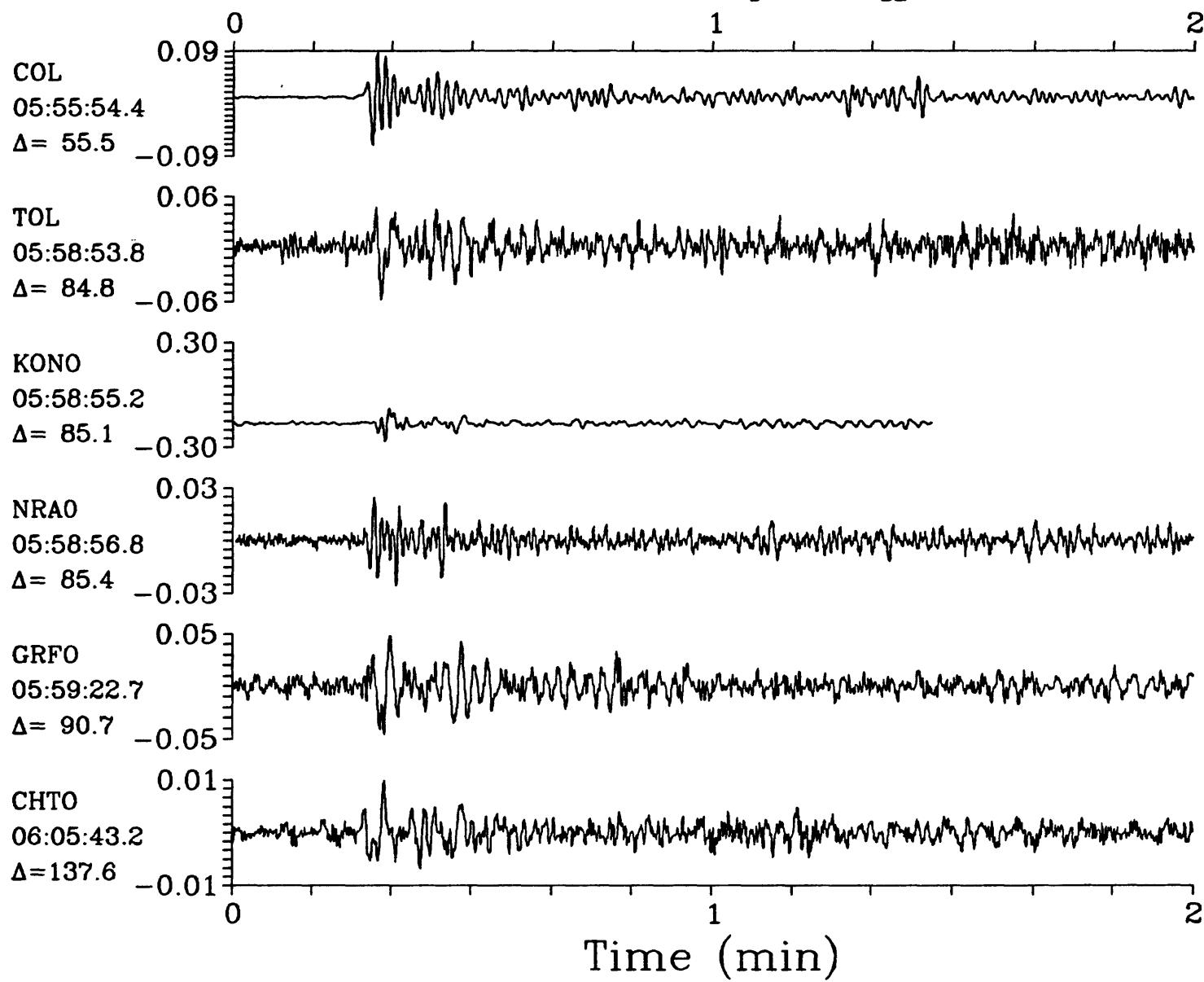
SPZ

Michoacan, Mexico $h=33.0$ $m_b=5.6$ $M_{sz}=5.6$ 

SPZ

05 May 1986 05:46:37.19

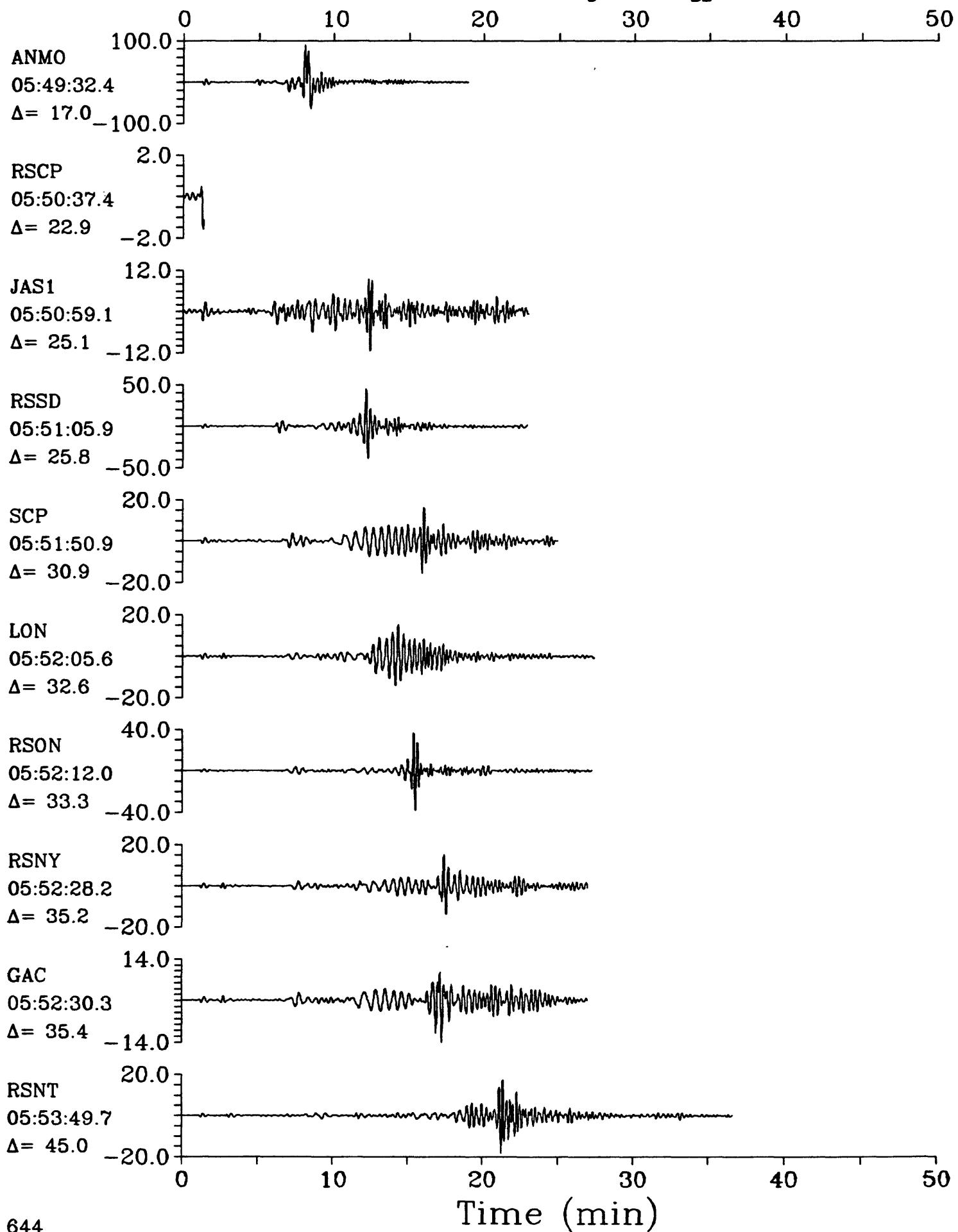
SPZ

Michoacan, Mexico $h=33.0$ $m_b=5.6$ $M_{sz}=5.6$ 

LPZ

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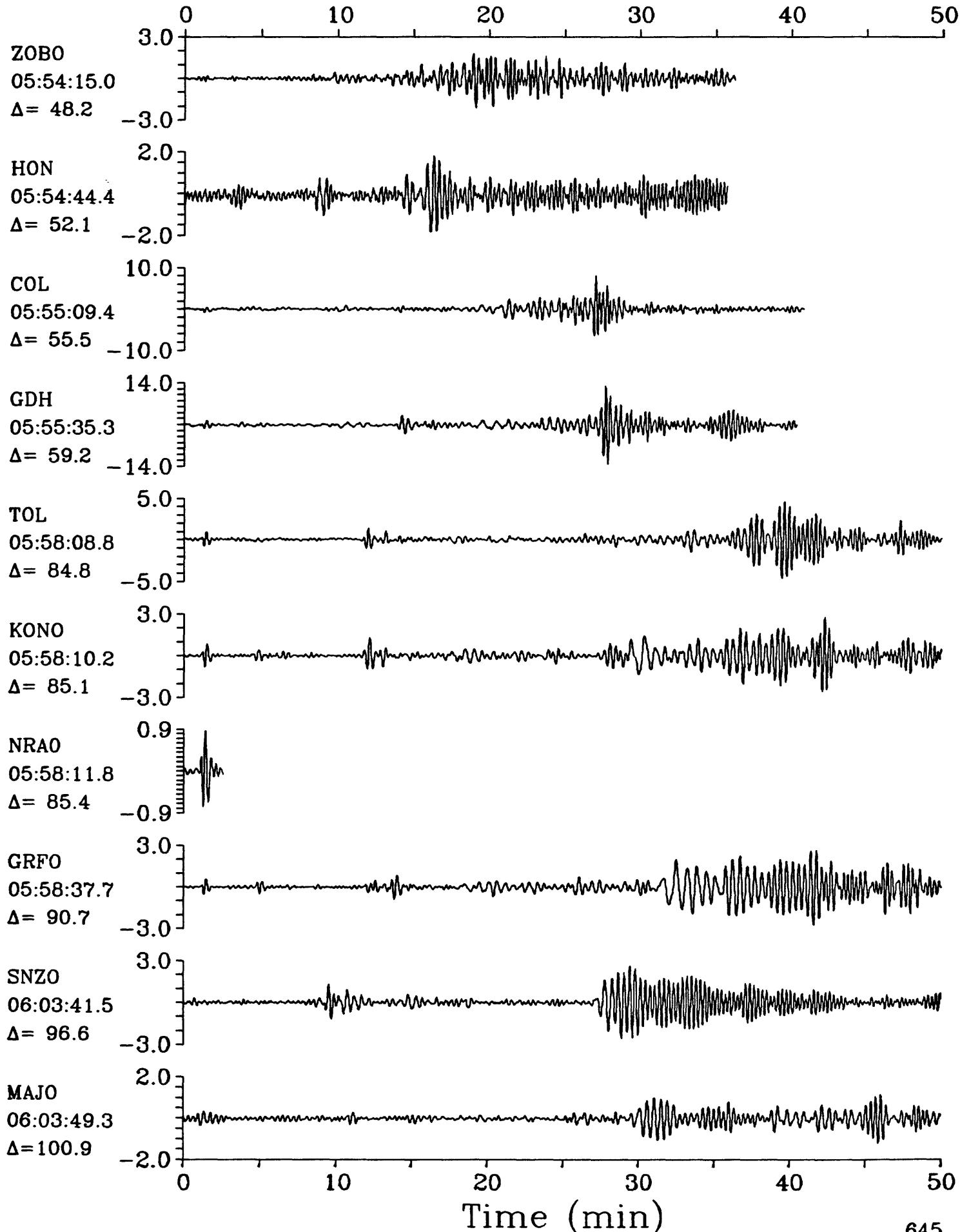
LPZ

Michoacan, Mexico $h=33.0$ $m_b=5.6$ $M_{sz}=5.6$ 

LPZ

05 May 1986 05:46:37.19

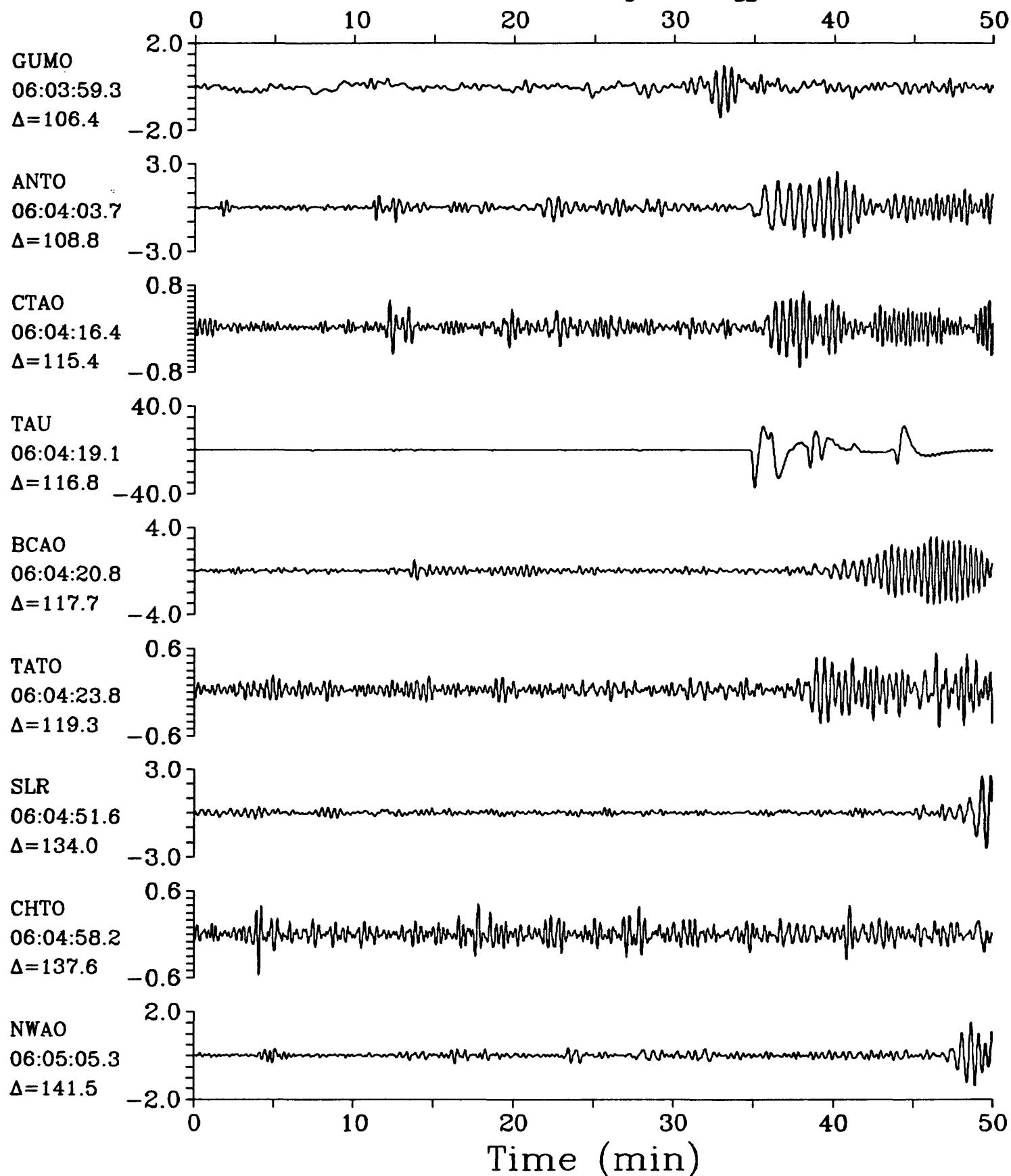
LPZ

Michoacan, Mexico $h=33.0$ $m_b=5.6$ $M_{SZ}=5.6$ 

LPZ

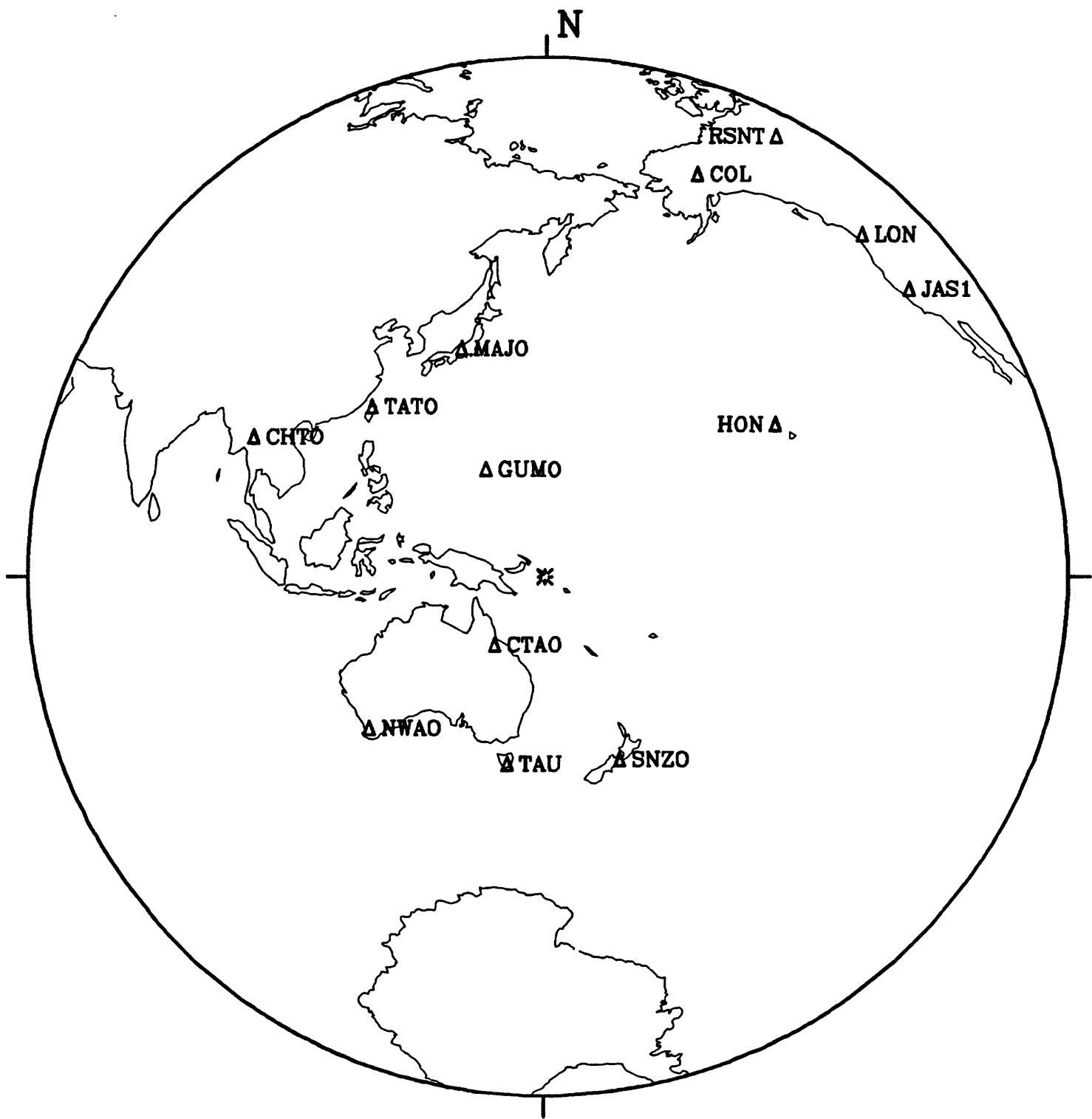
05 May 1986 05:46:37.19

LPZ

Michoacan, Mexico $h=33.0$ $m_b=5.6$ $M_{SZ}=5.6$ 

05 May 1986 15:14:35.71

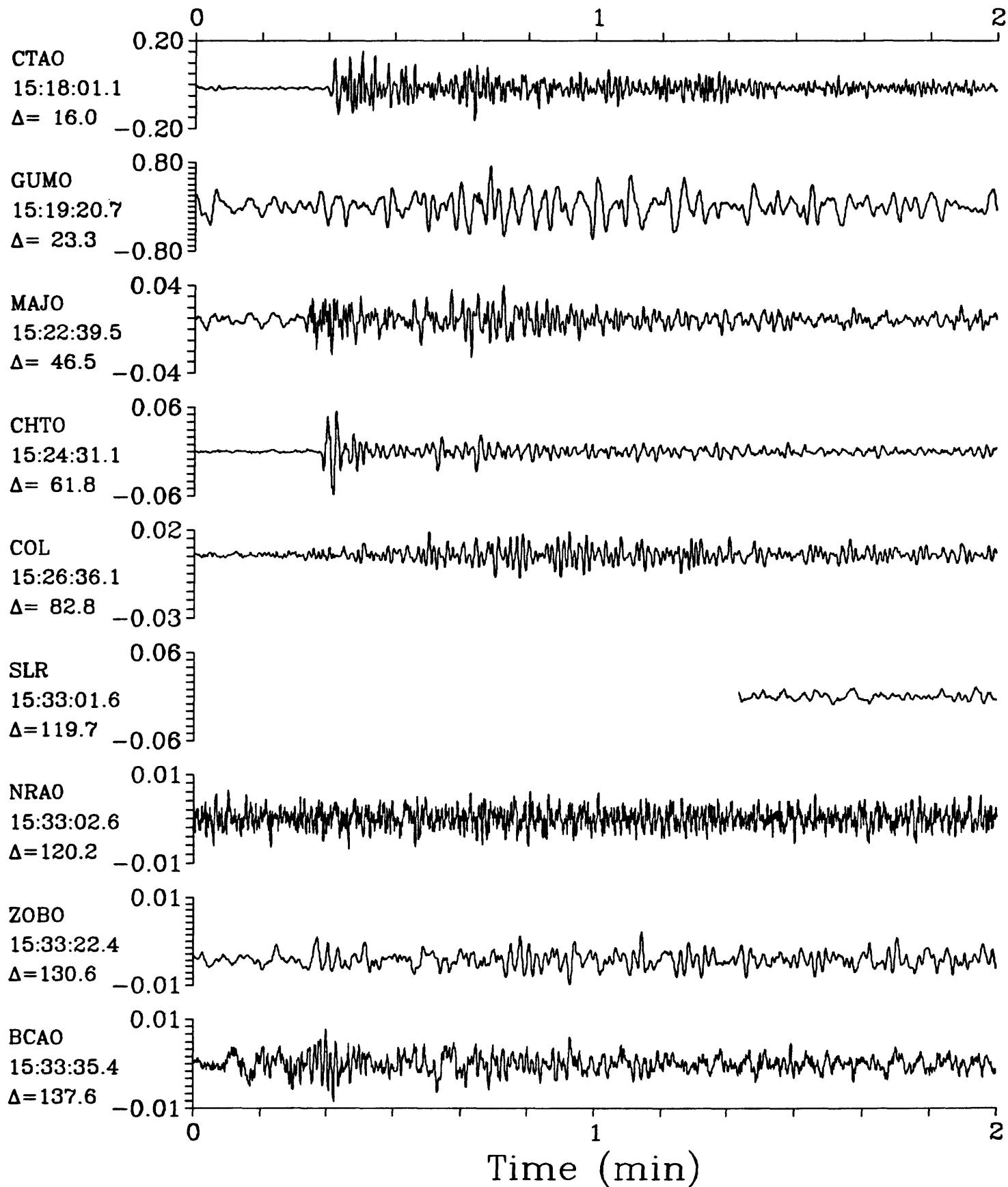
Solomon Islands



SPZ

05 May 1986 15:14:35.71
Solomon Islands $h=84.0$ $m_b=5.5$

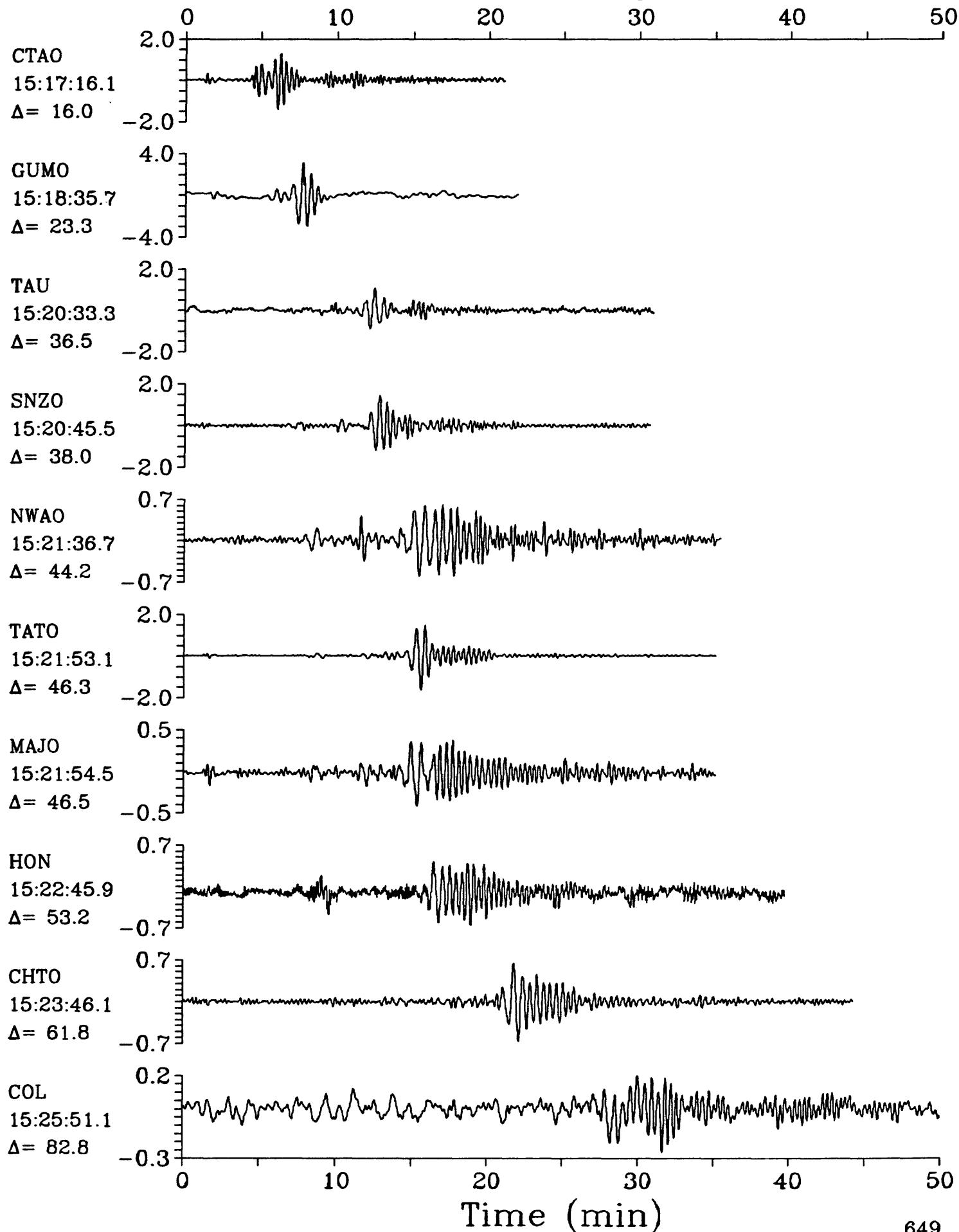
SPZ



LPZ

05 May 1986 15:14:35.71
Solomon Islands $h=84.0$ $m_b=5.5$

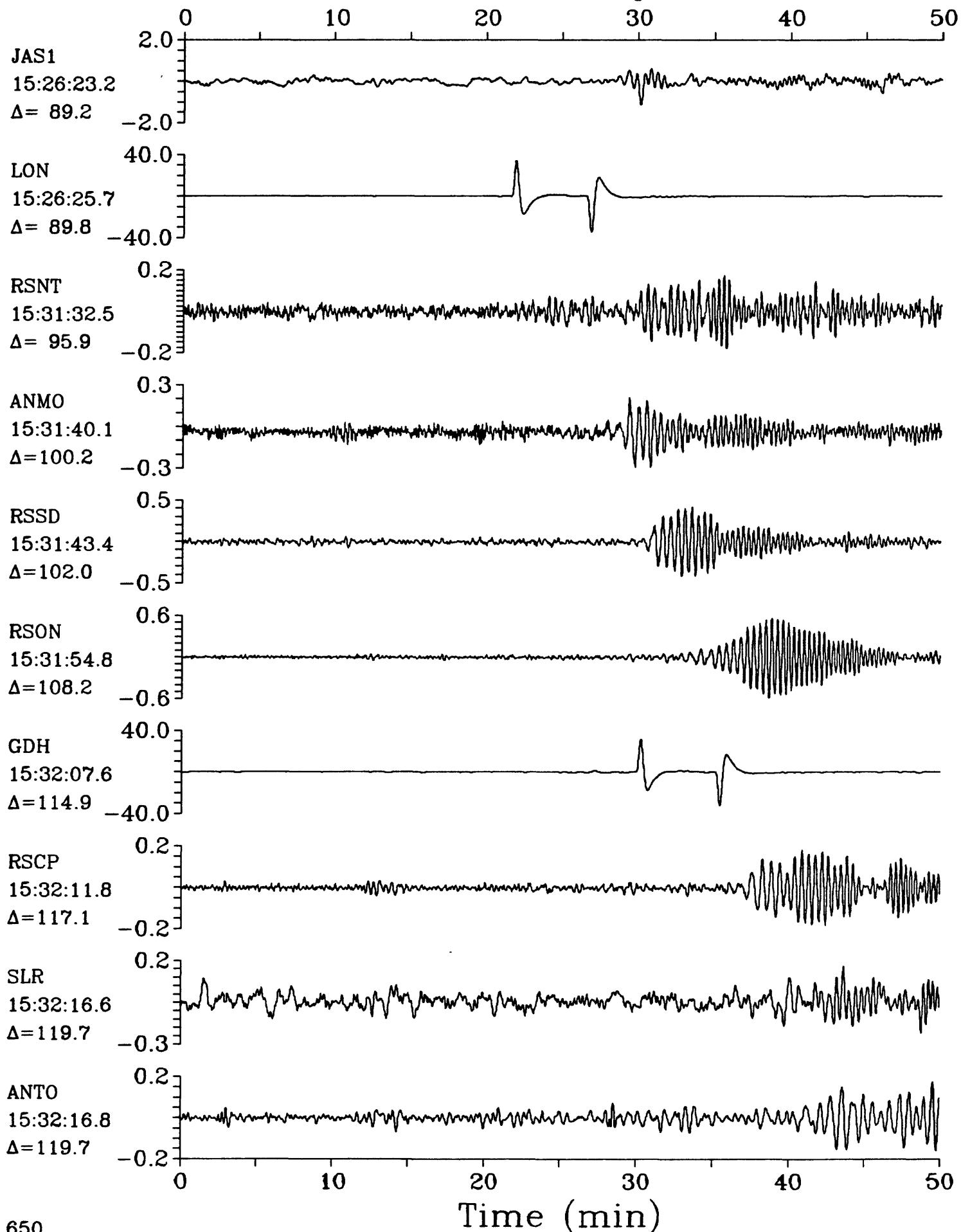
LPZ



LPZ

05 May 1986 15:14:35.71
Solomon Islands $h=84.0$ $m_b=5.5$

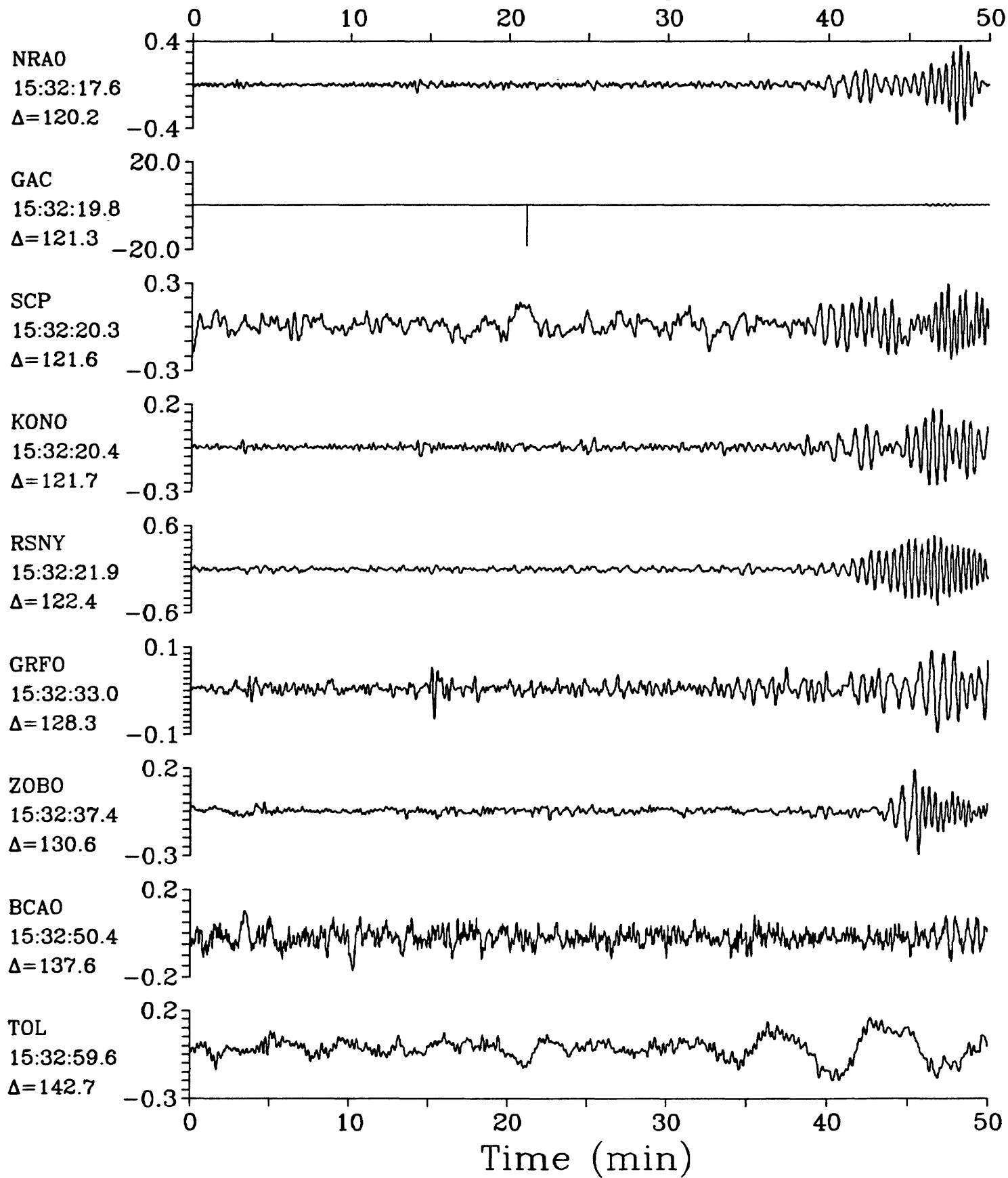
LPZ



LPZ

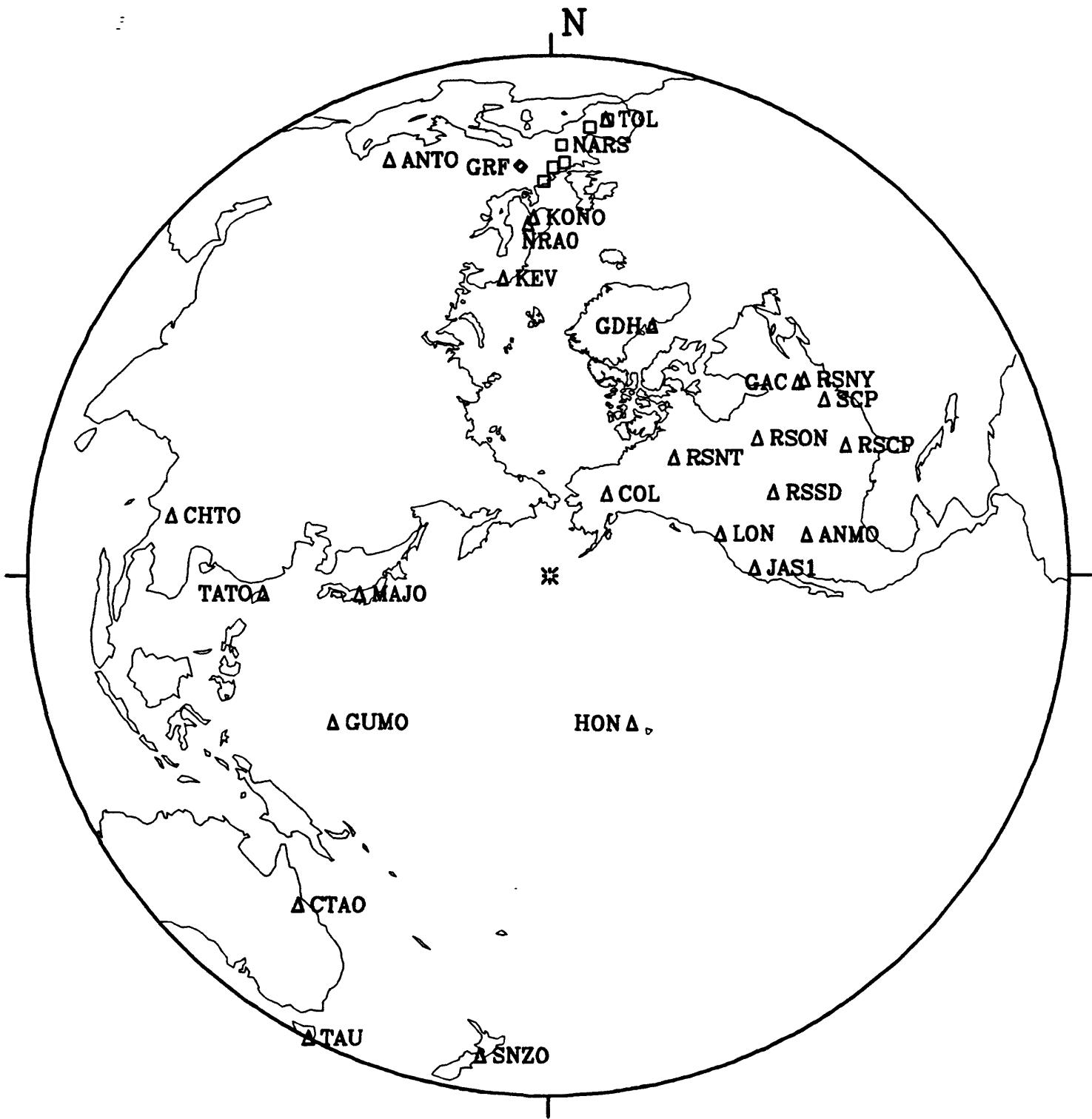
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Solomon Islands h=84.0 m_b=5.5

LPZ



07 May 1986 20:43:32.67

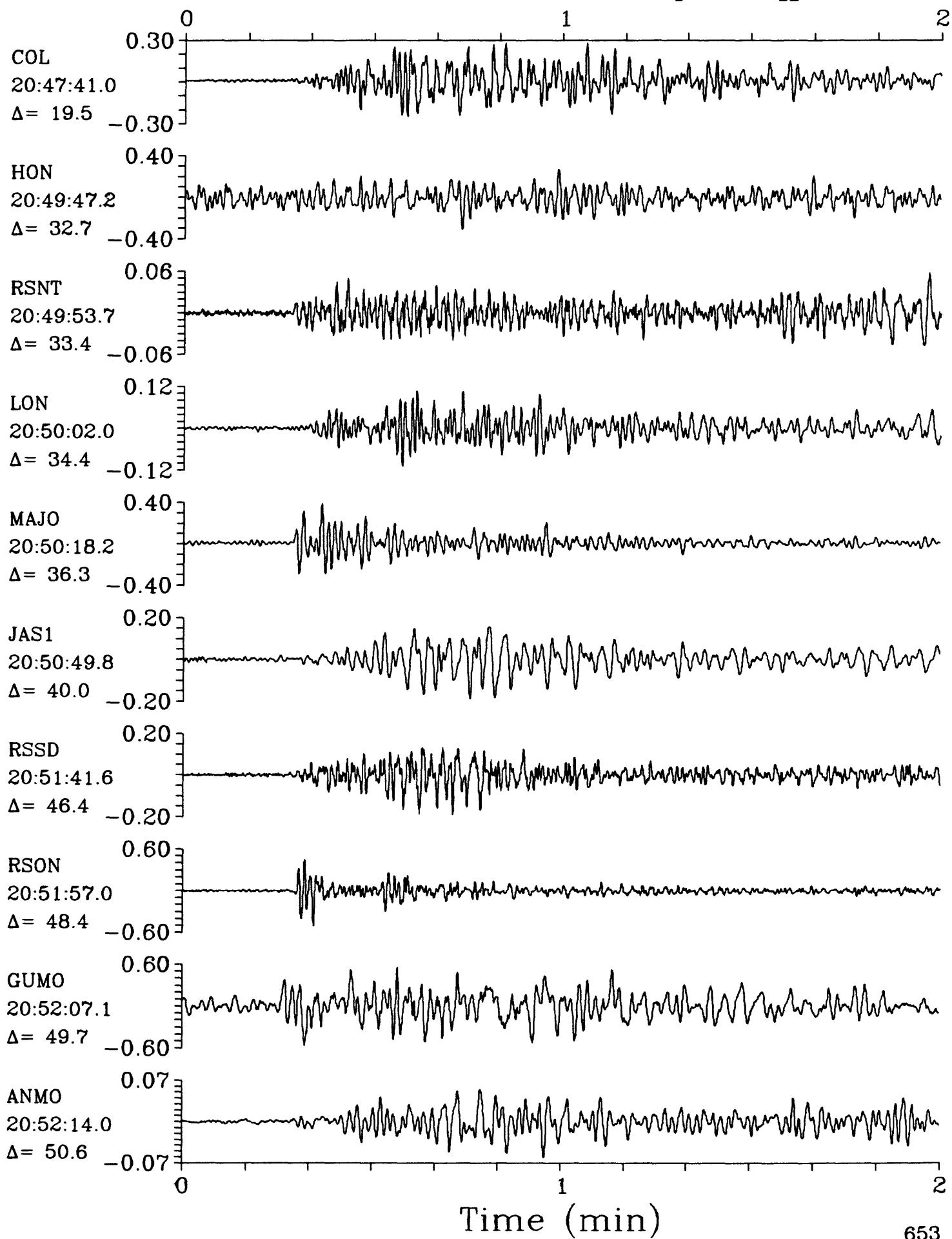
Andreanof Islands, Aleutian Is.



SPZ

07 May 1986 20:43:32.67

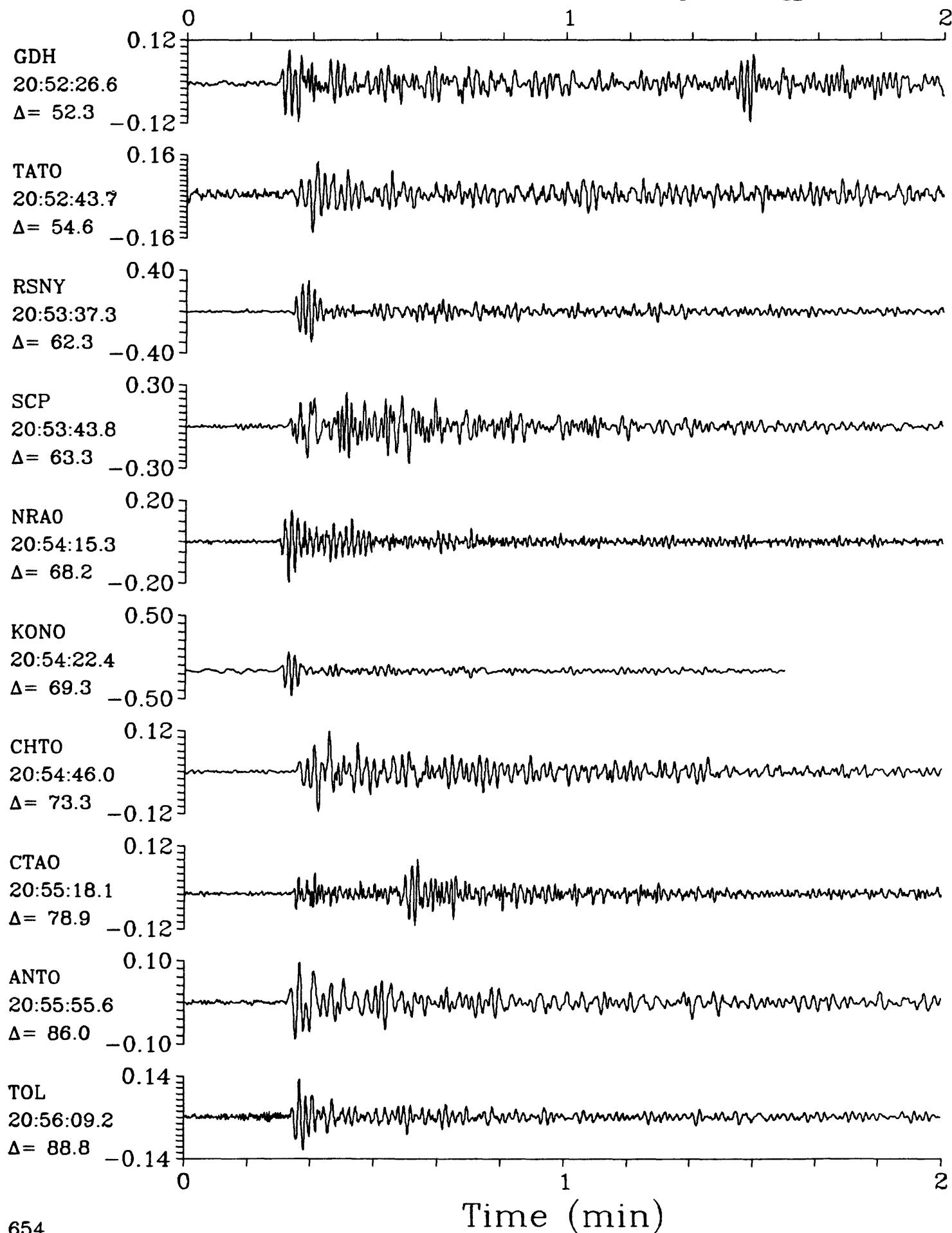
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.1$ $M_{sz}=6.0$ 

SPZ

07 May 1986 20:43:32.67

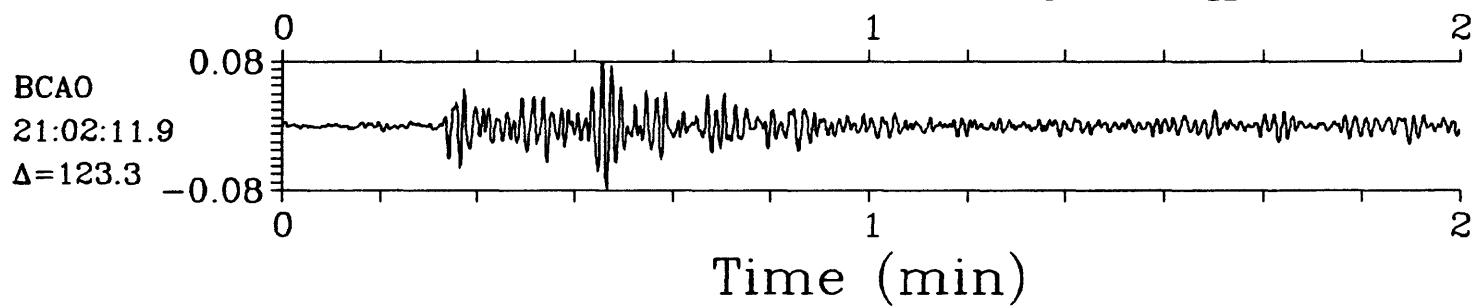
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.1$ $M_{sz}=6.0$ 

SPZ

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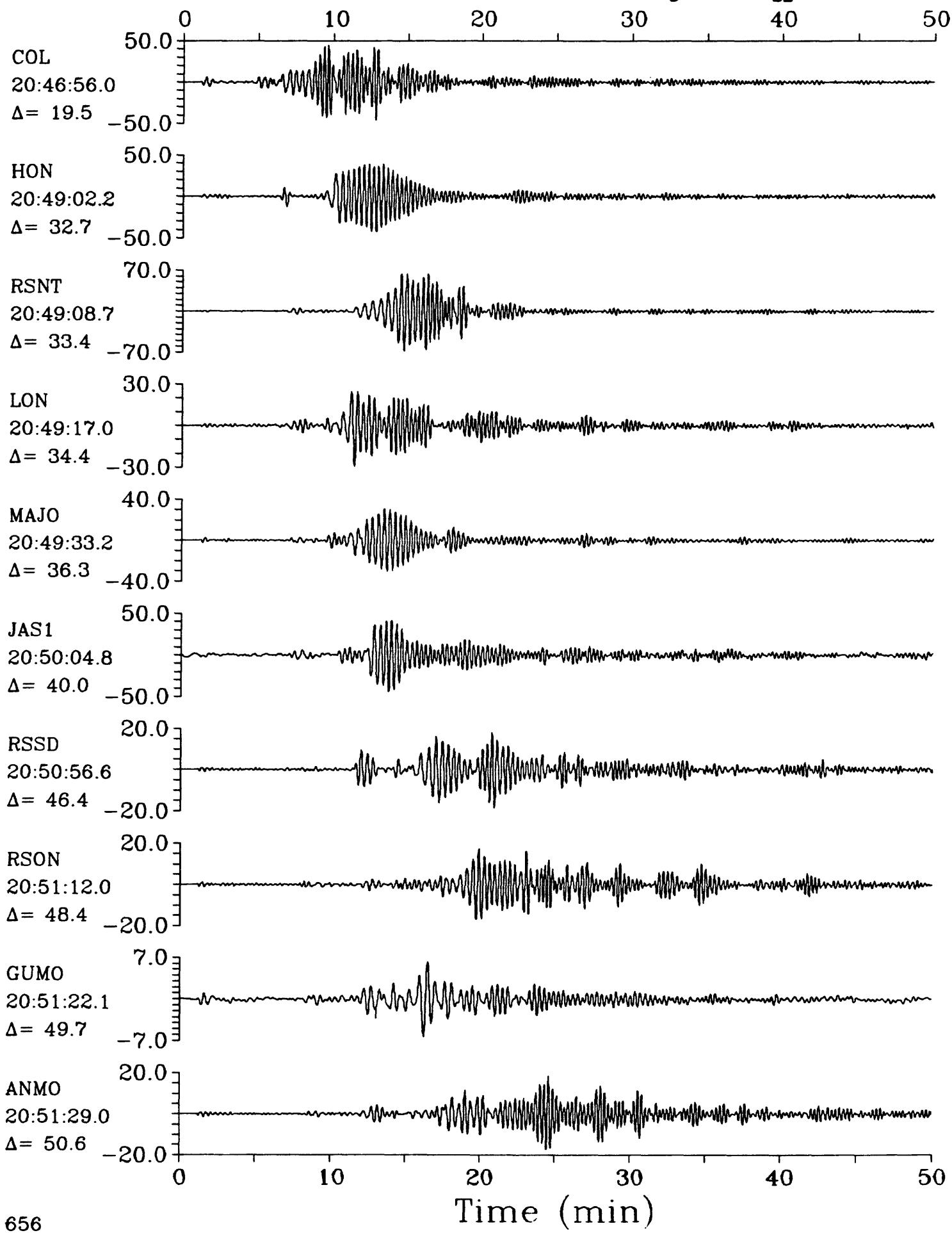
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.1$ $M_{sz}=6.0$ 

LPZ

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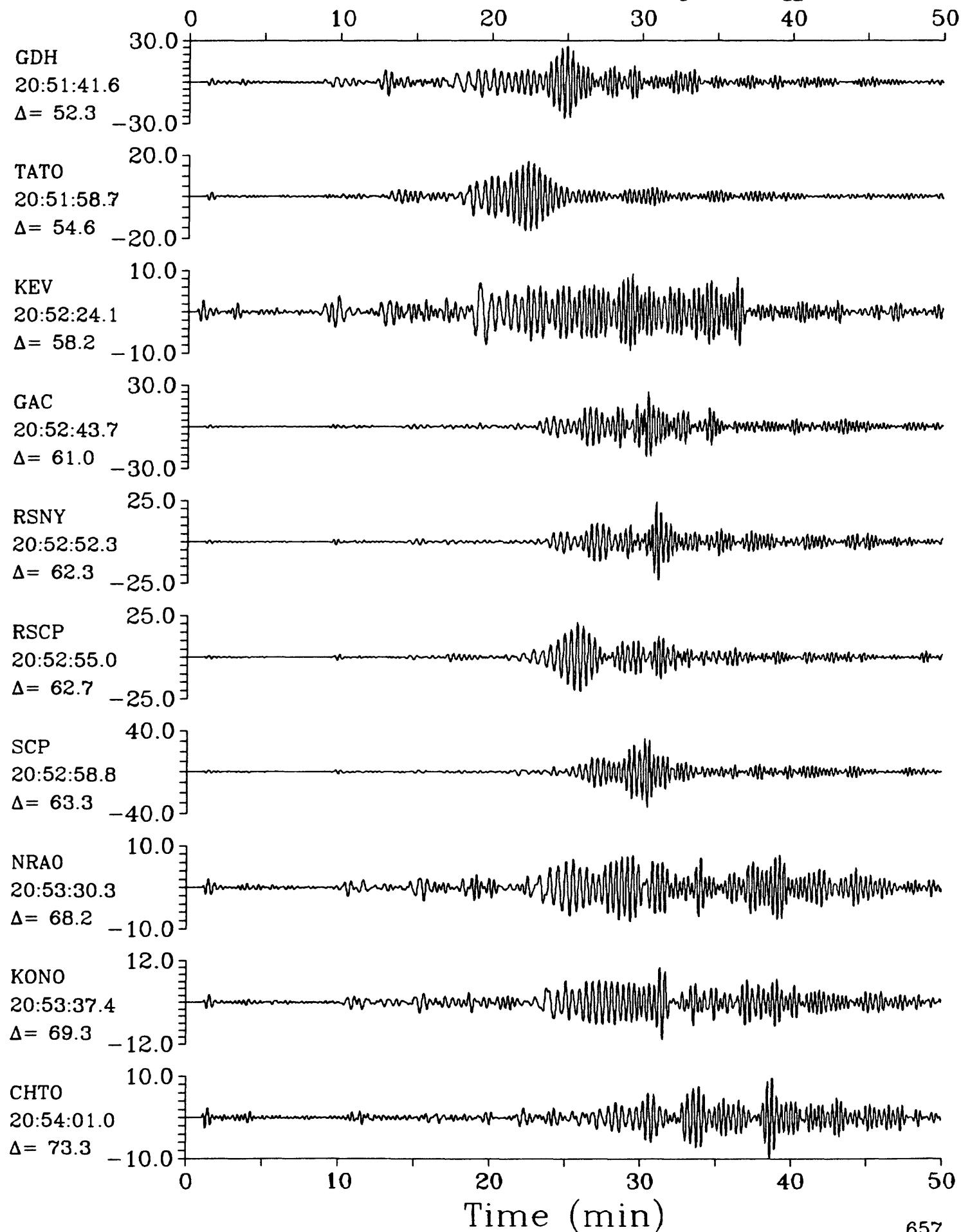
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.1$ $M_{sz}=6.0$ 

LPZ

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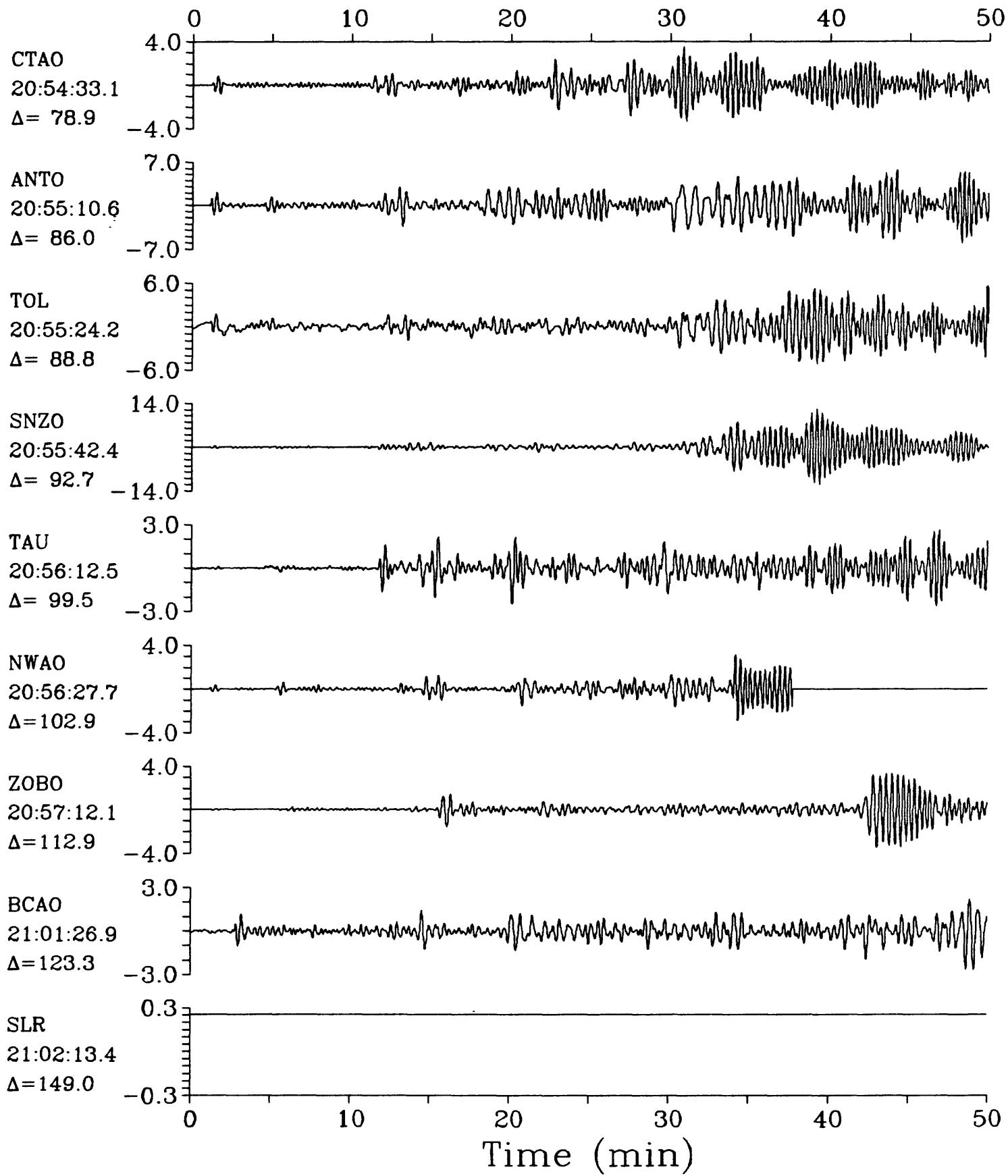
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.1$ $M_{sz}=6.0$ 

LPZ

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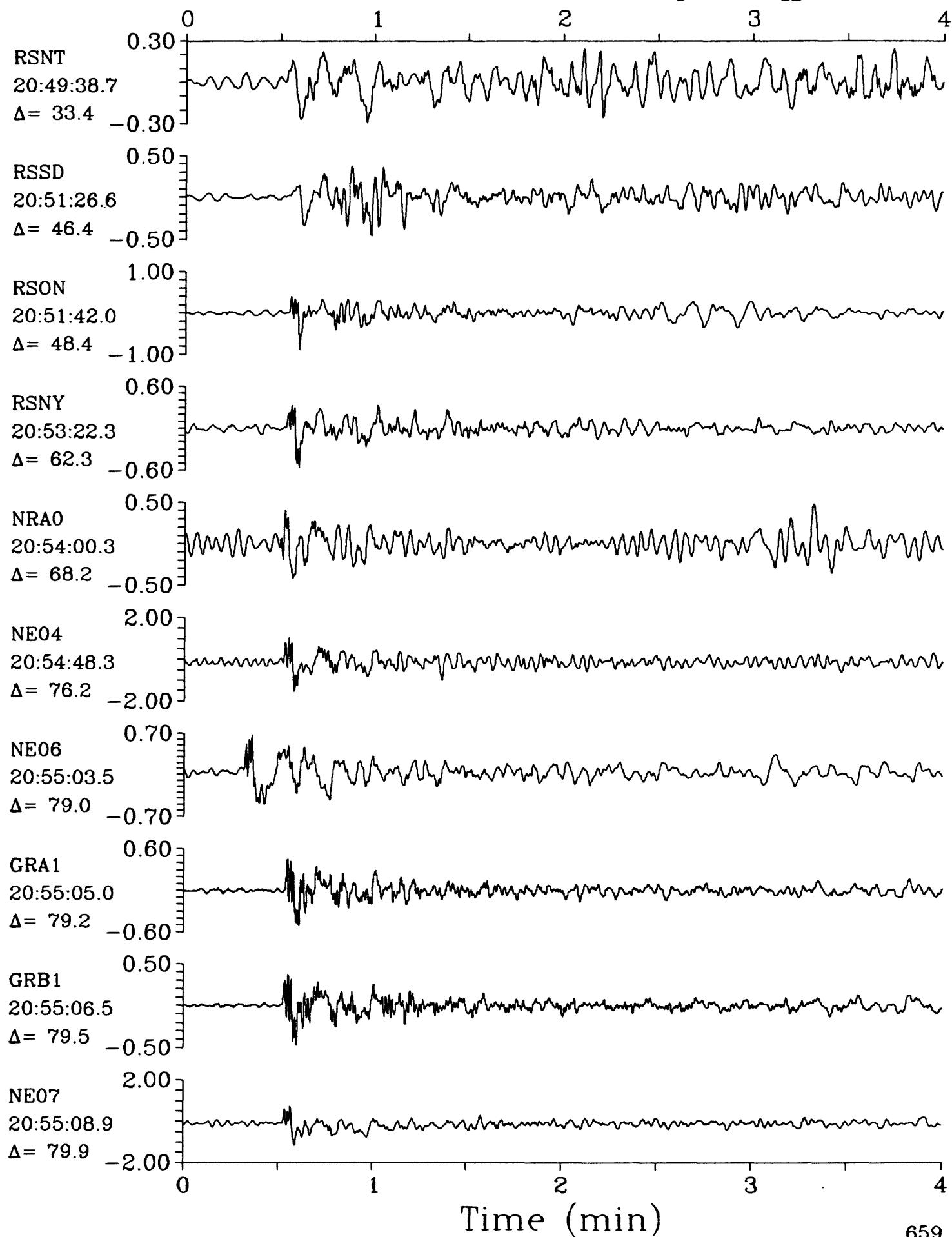
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.1$ $M_{sz}=6.0$ 

IPZ

07 May 1986 20:43:32.67

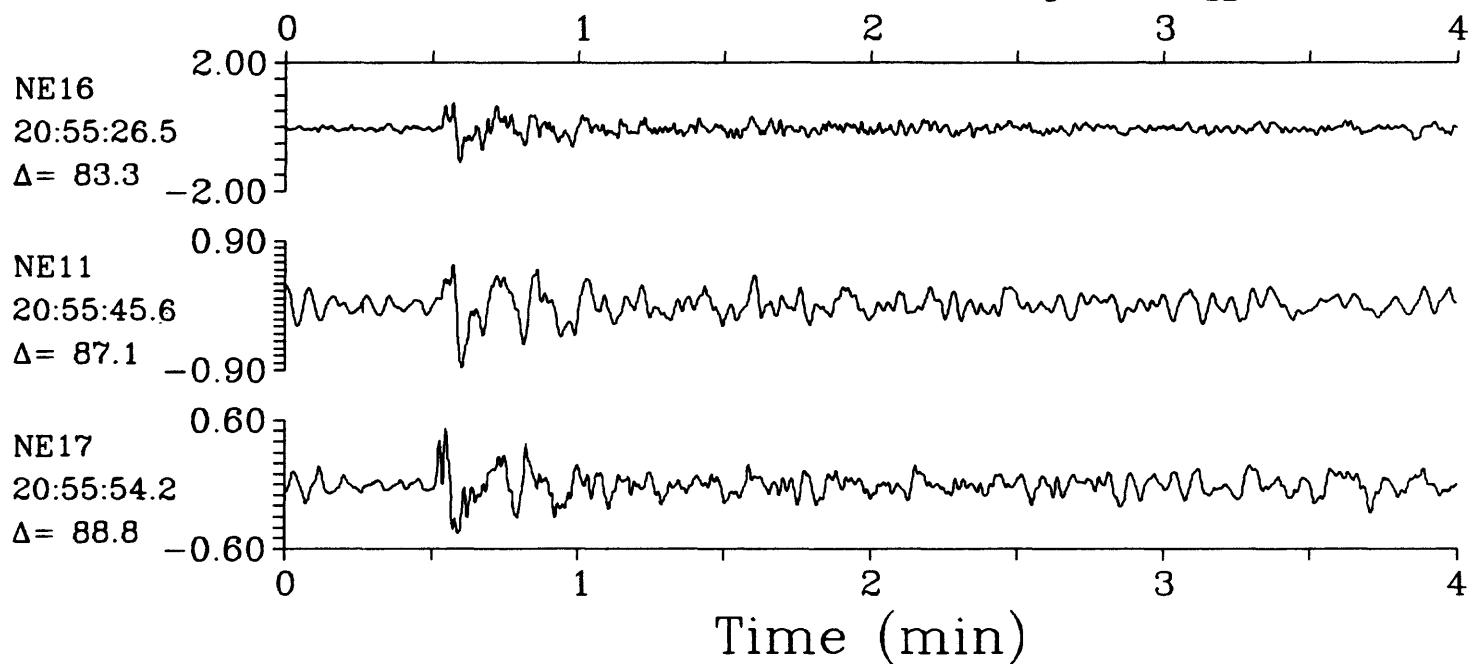
IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.1$ $M_{sz}=6.0$ 

IPZ

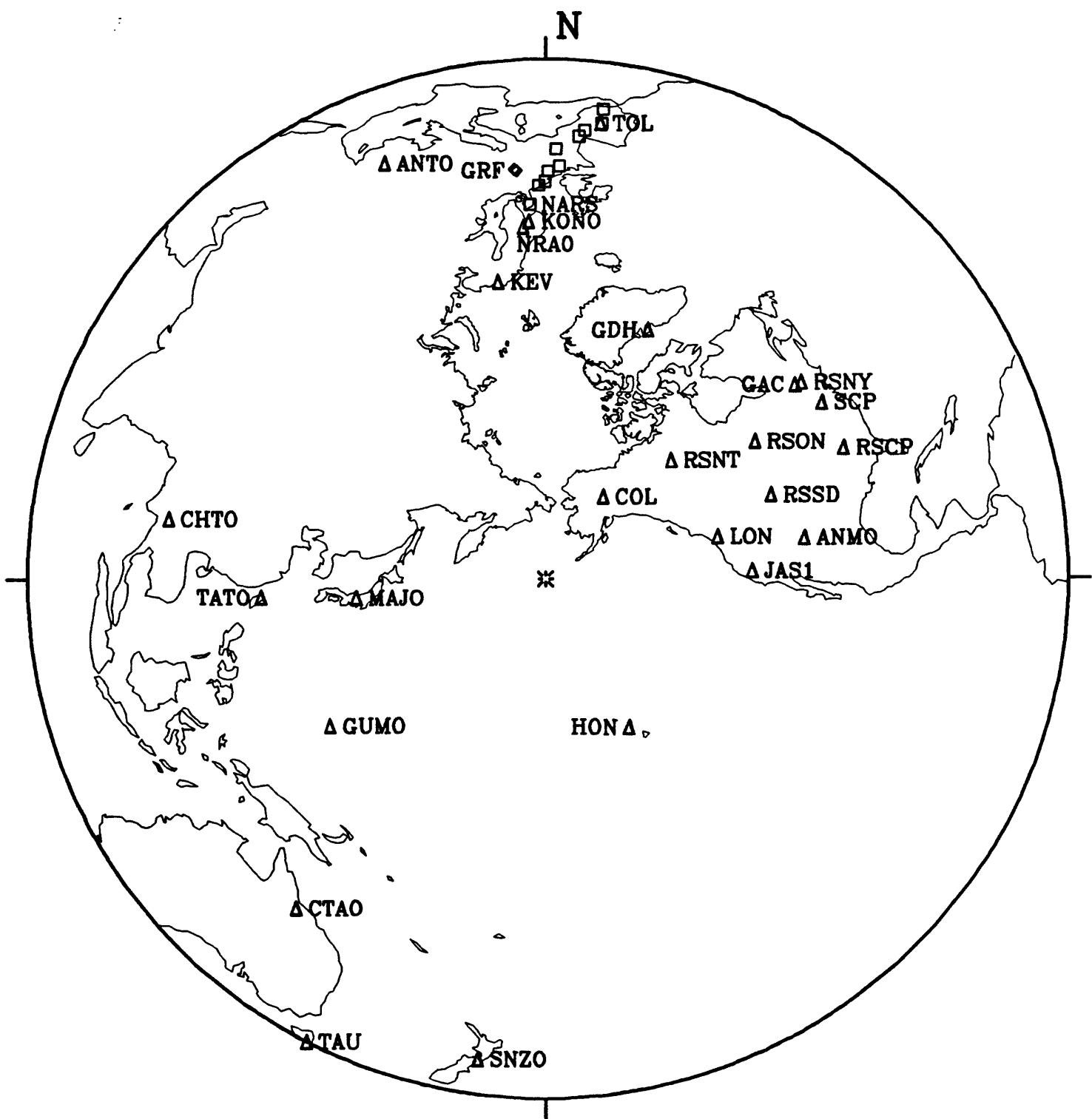
07 May 1986 20:43:32.67

IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.1$ $M_{sz}=6.0$ 

07 May 1986 22:47:10.25

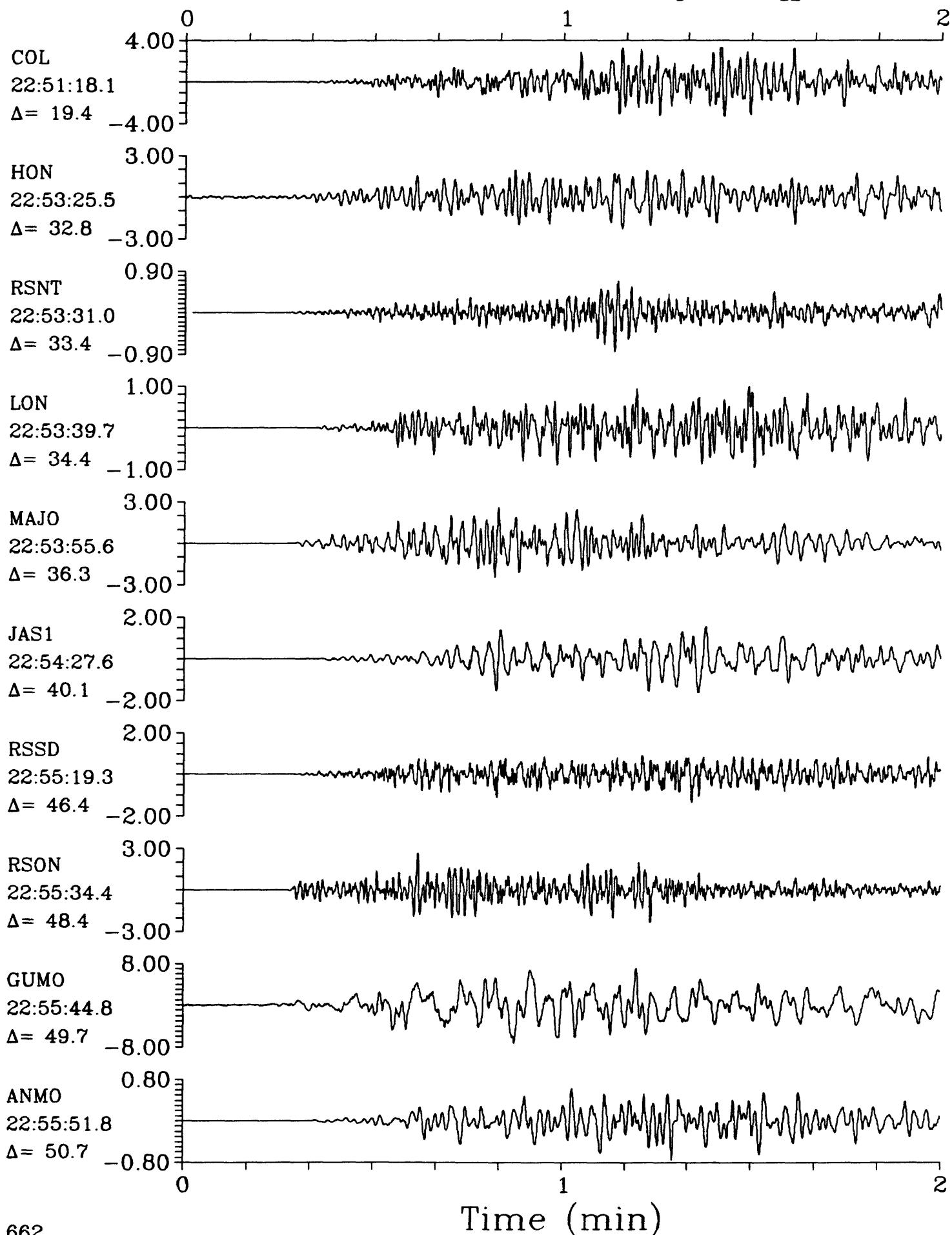
Andreanof Islands, Aleutian Is.



SPZ

07 May 1986 22:47:10.25

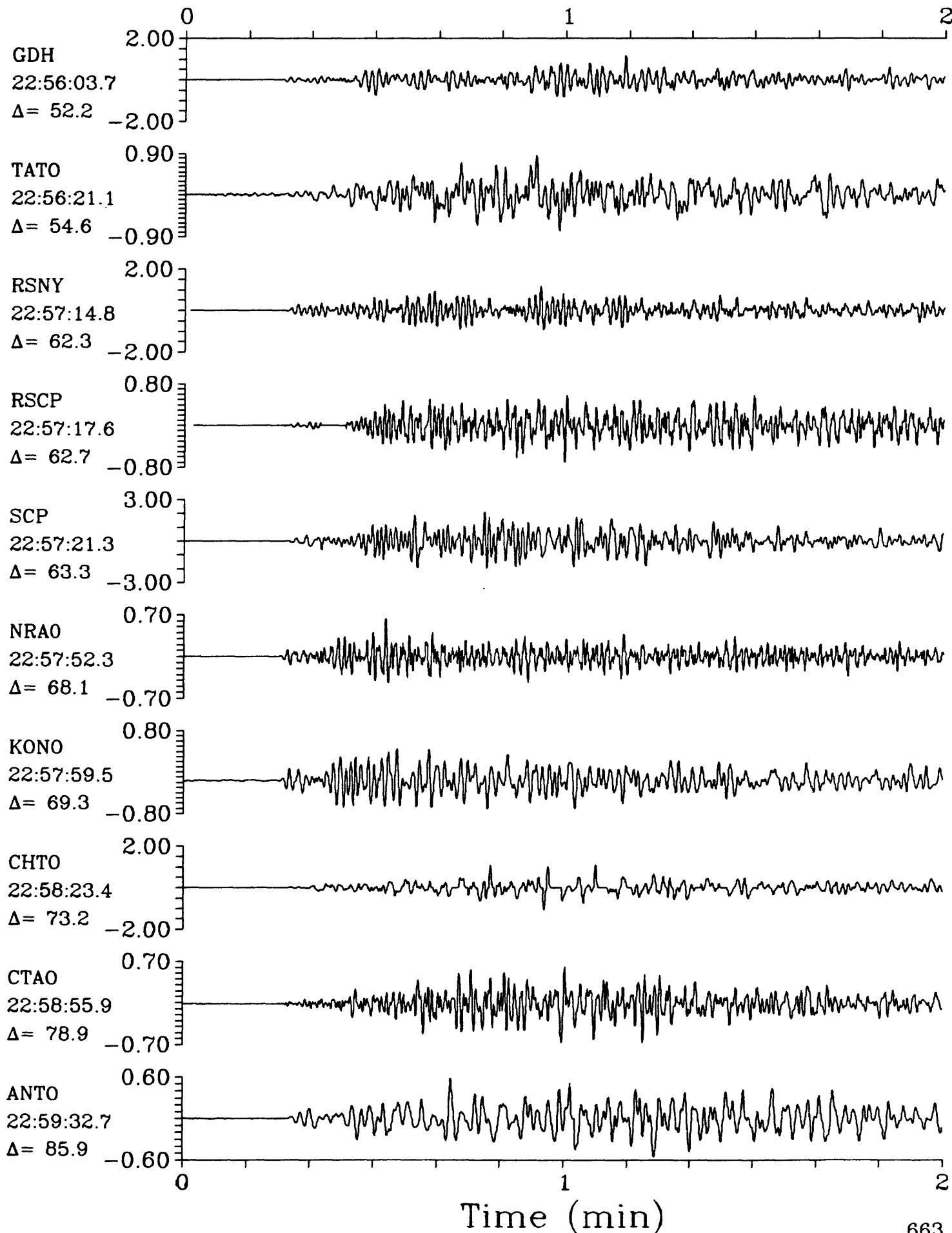
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.5$ $M_{Sz}=7.7$ 

SPZ

07 May 1986 22:47:10.25

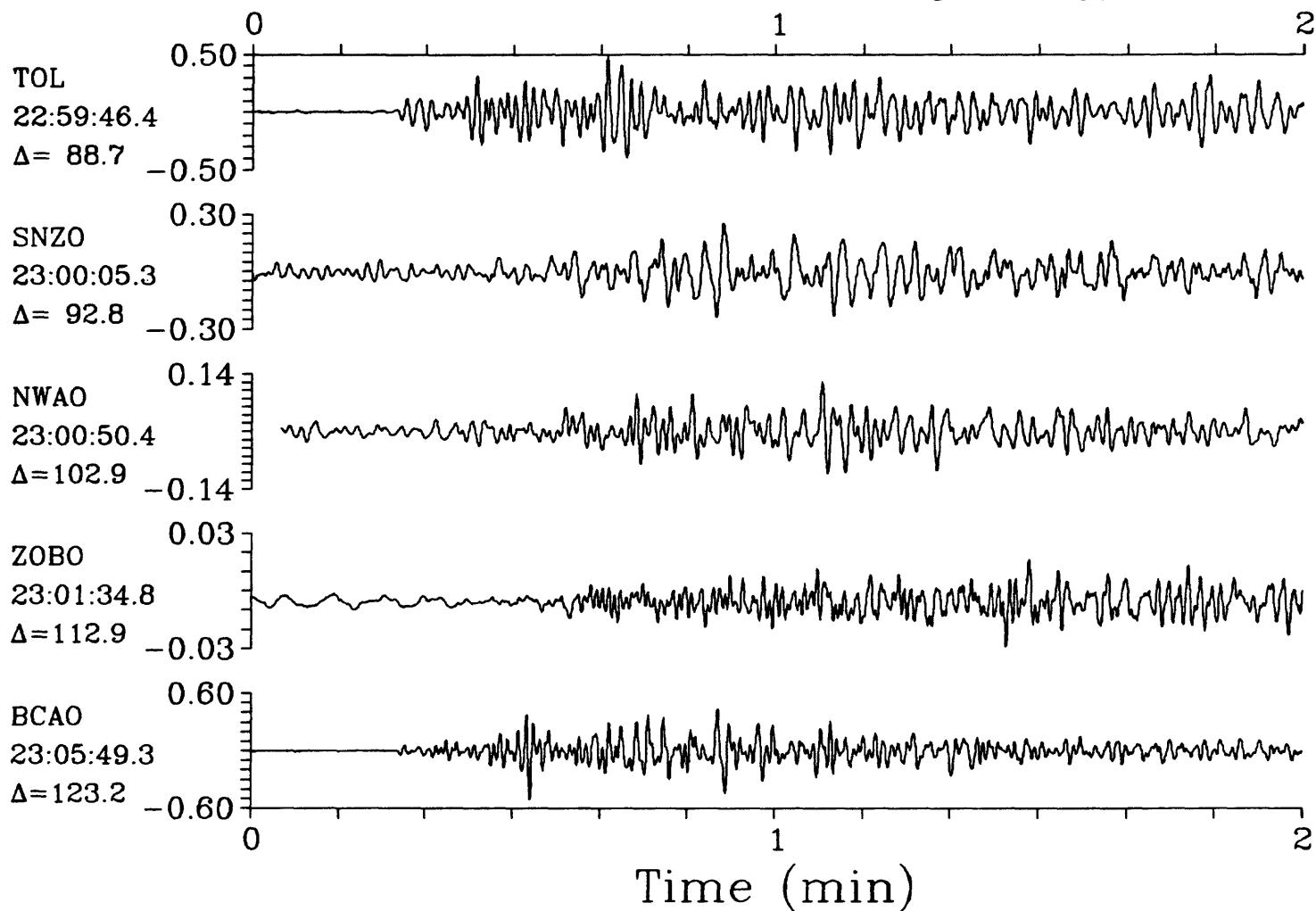
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.5$ $M_{sz}=7.7$ 

SPZ

07 May 1986 22:47:10.25

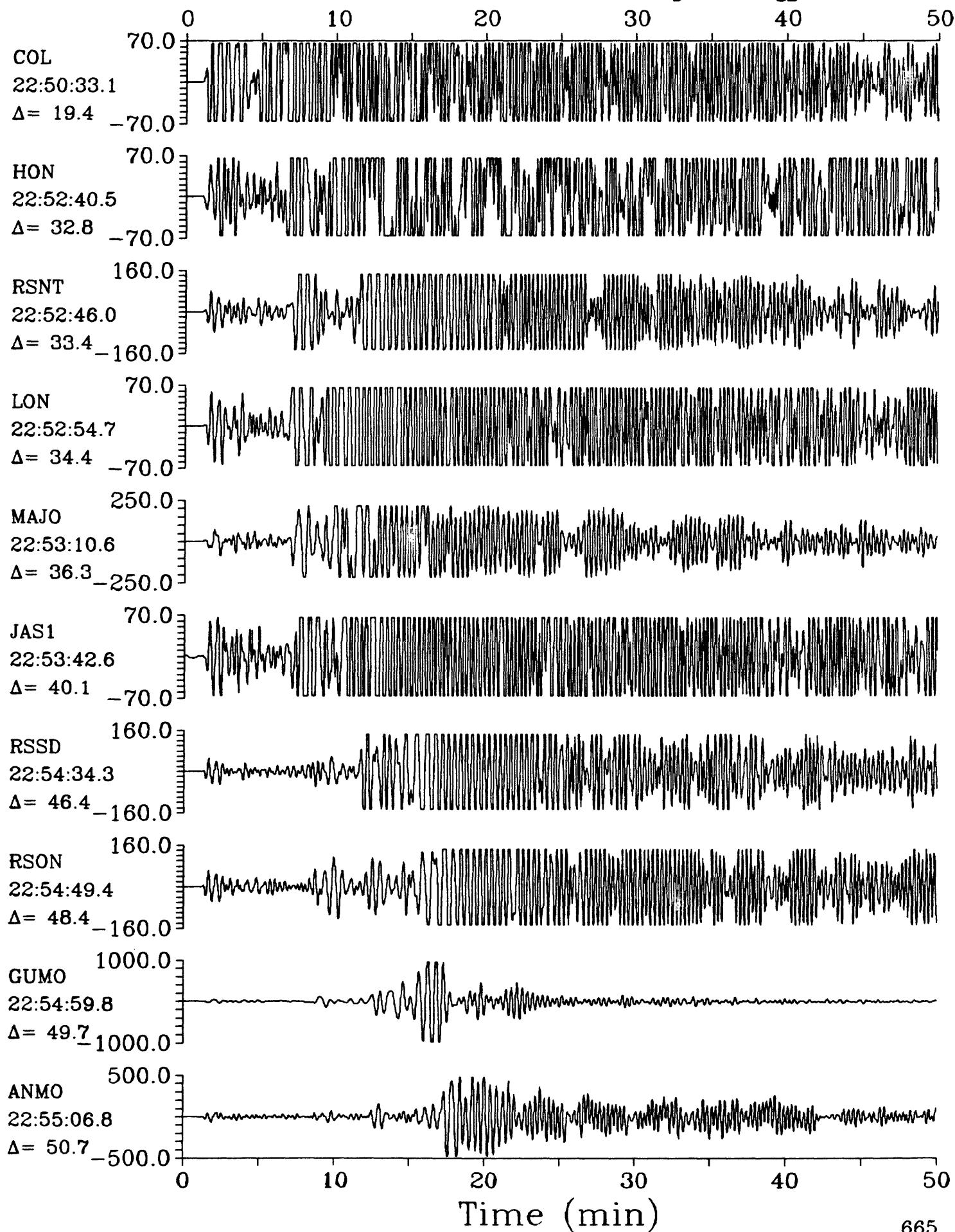
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.5$ $M_{sz}=7.7$ 

LPZ

07 May 1986 22:47:10.25

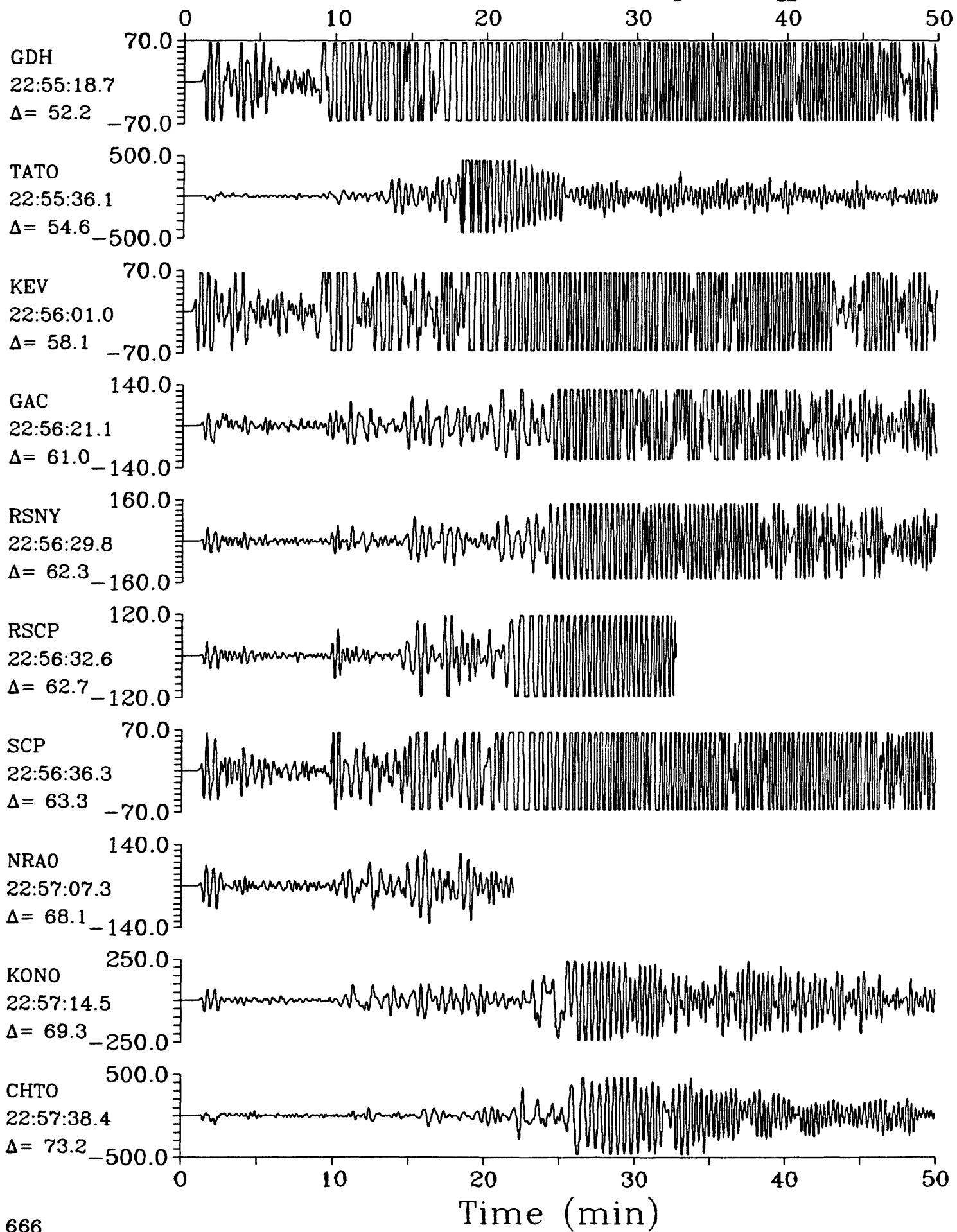
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.5$ $M_{sz}=7.7$ 

LPZ

07 May 1986 22:47:10.25

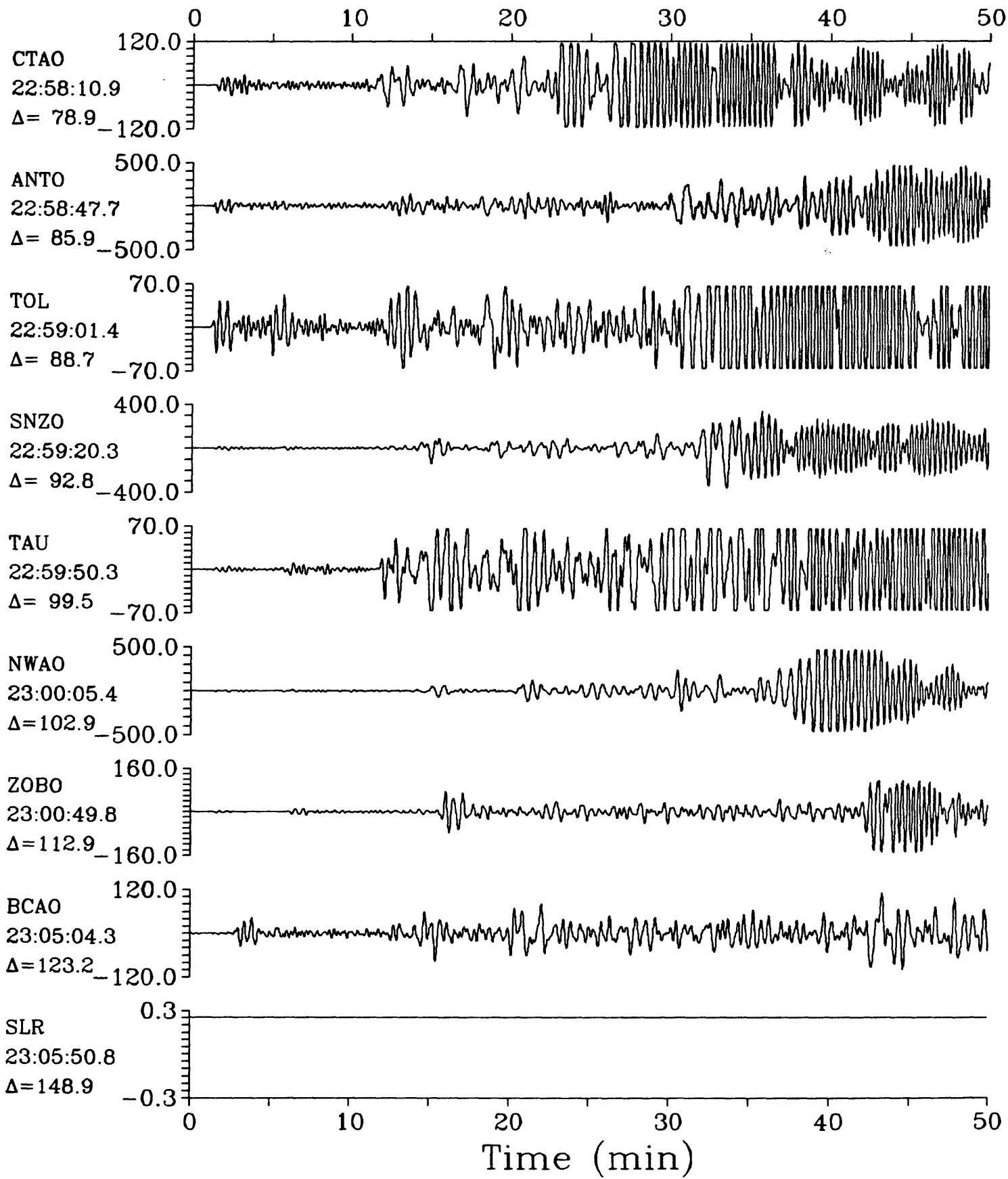
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.5$ $M_{sz}=7.7$ 

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07 May 1986 22:47:10.25

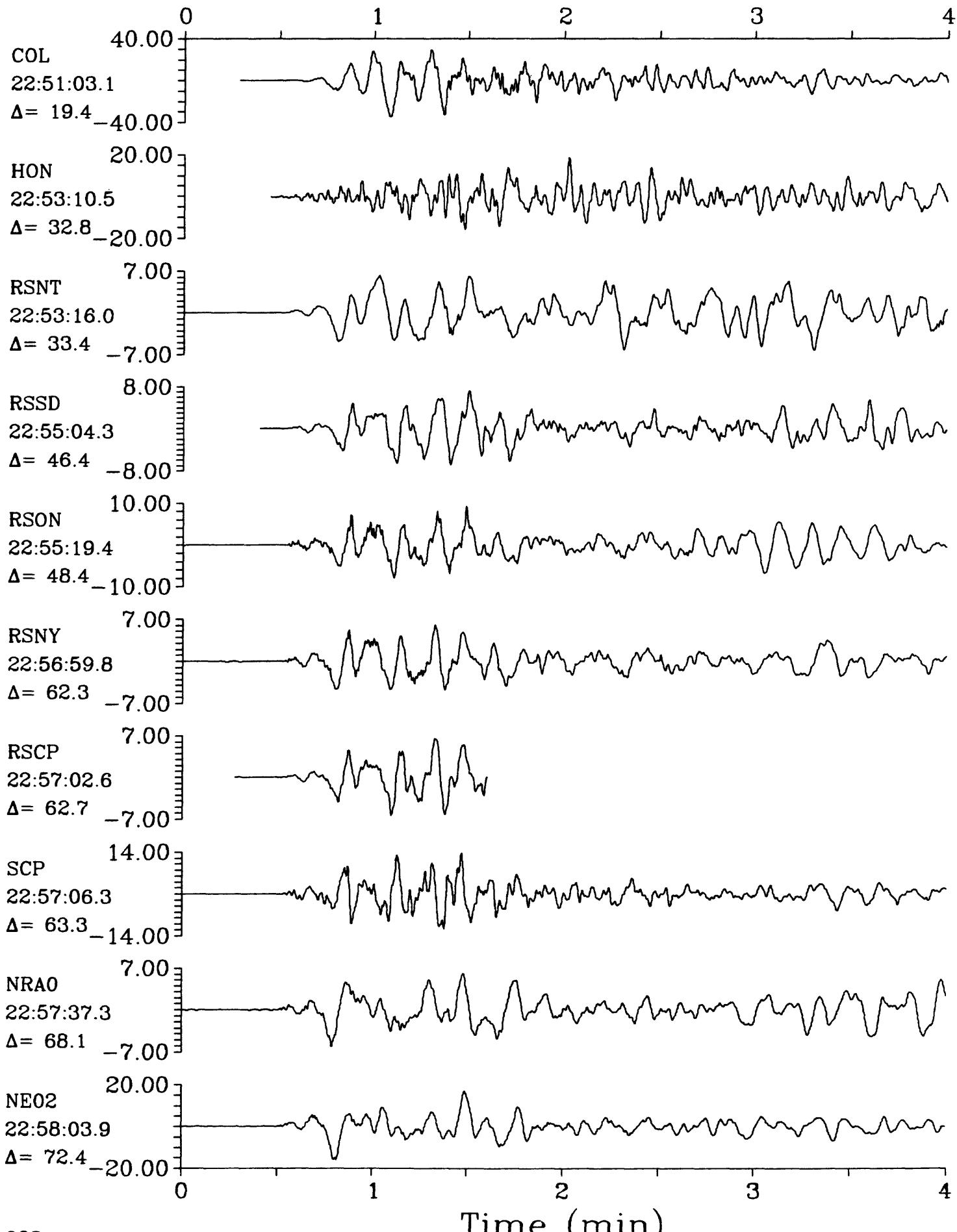
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.5$ $M_{sz}=7.7$ 

IPZ

07 May 1986 22:47:10.25

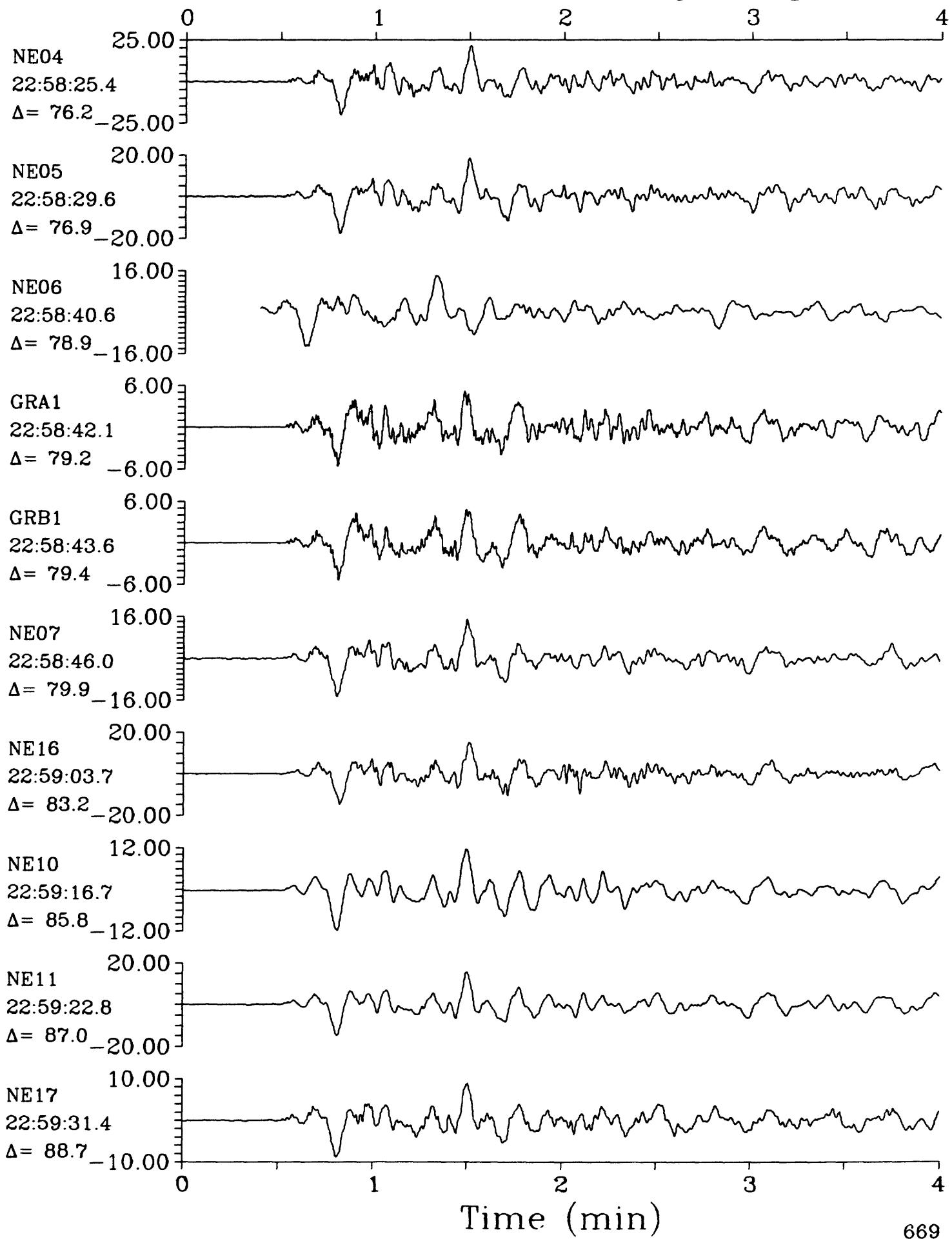
IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.5$ $M_{sz}=7.7$ 

IPZ

07 May 1986 22:47:10.25

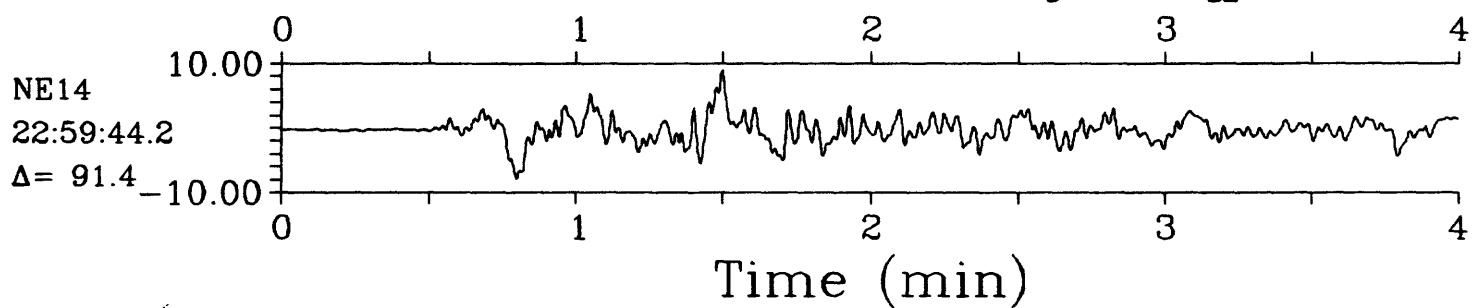
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.5$ $M_{sz}=7.7$ 

IPZ

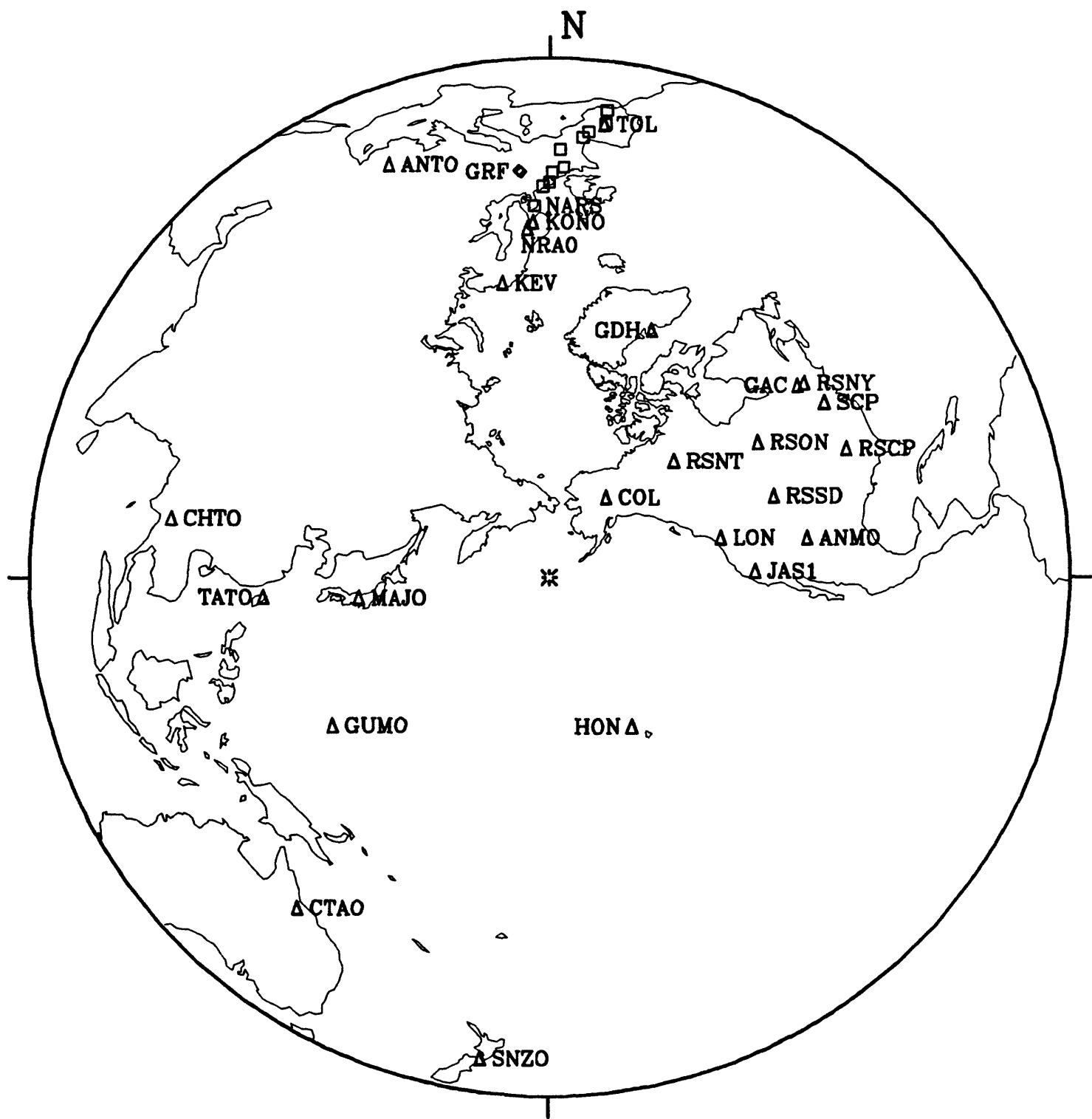
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IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.5$ $M_{sz}=7.7$ 

07 May 1986 23:07:46.21

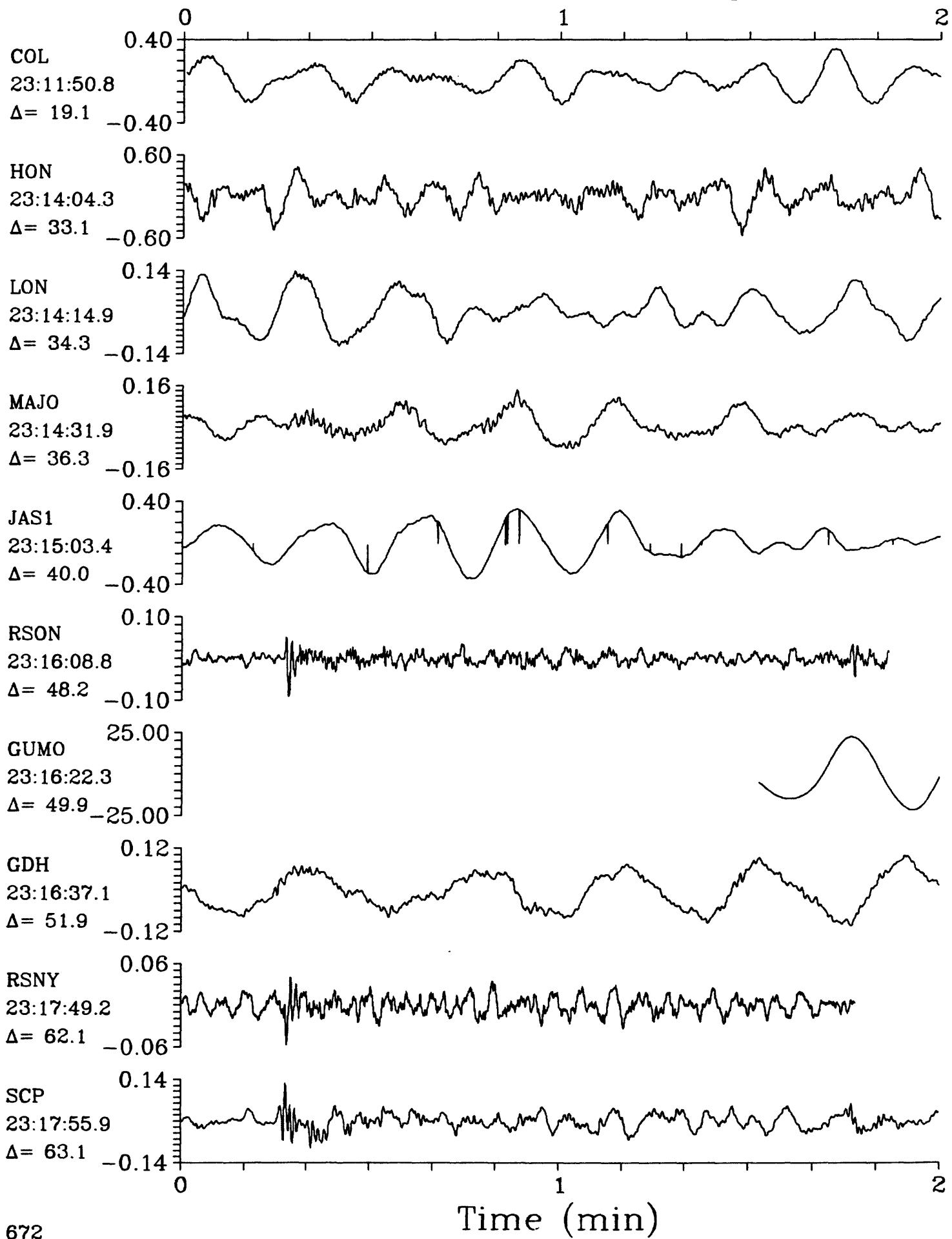
Andreanof Islands, Aleutian Is.



SPZ

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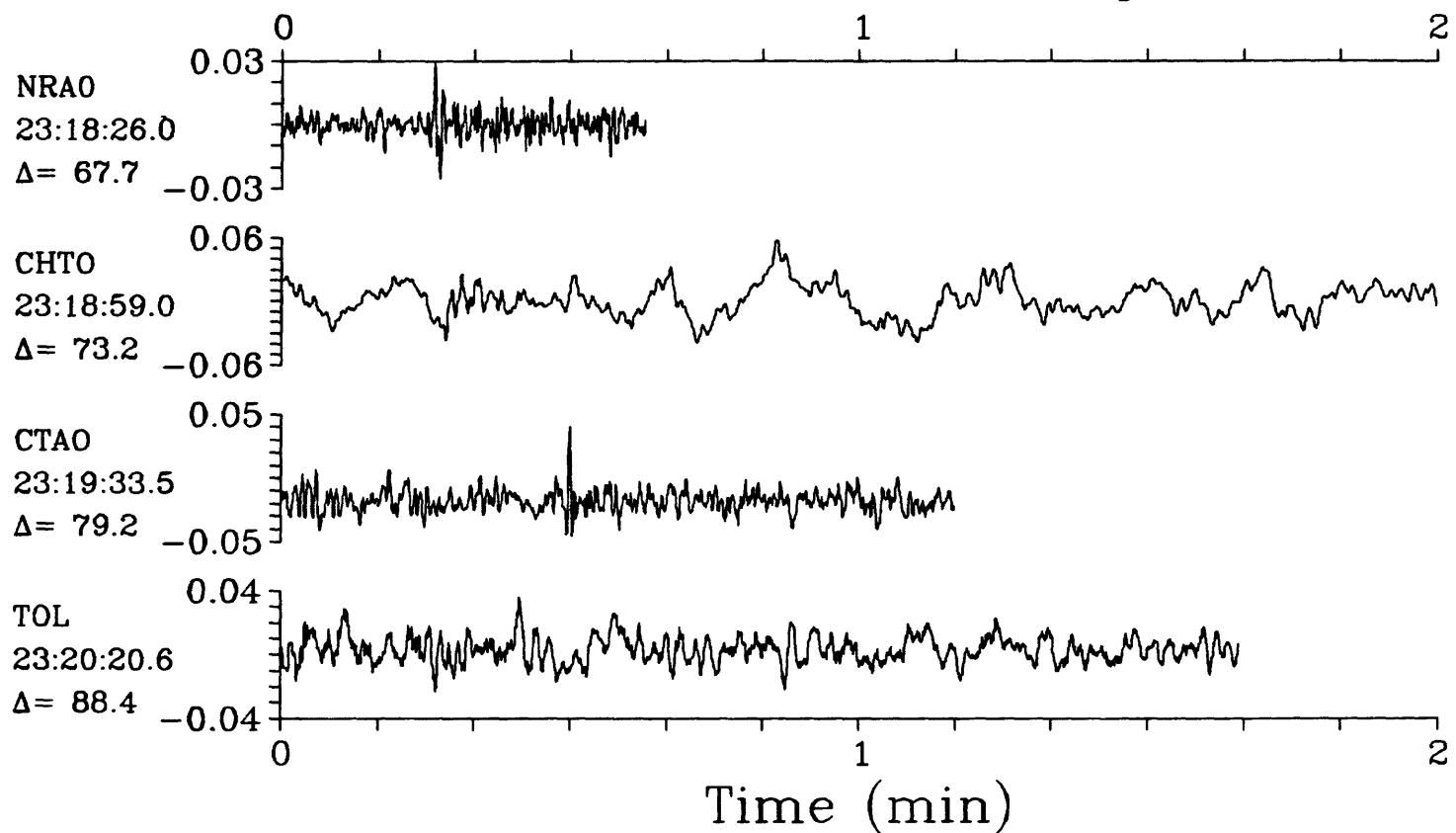
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

SPZ

07 May 1986 23:07:46.21

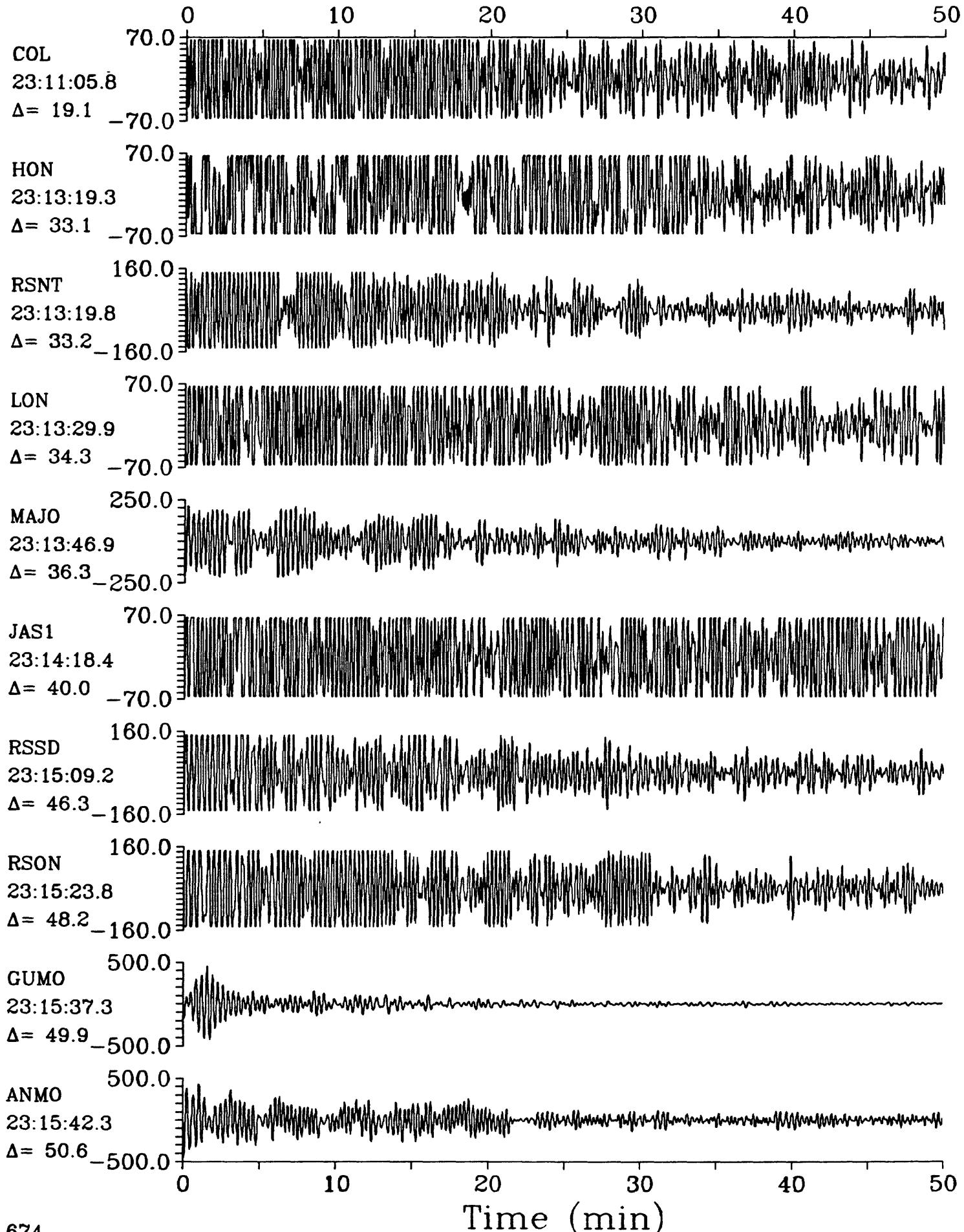
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

LPZ

07 May 1986 23:07:46.21

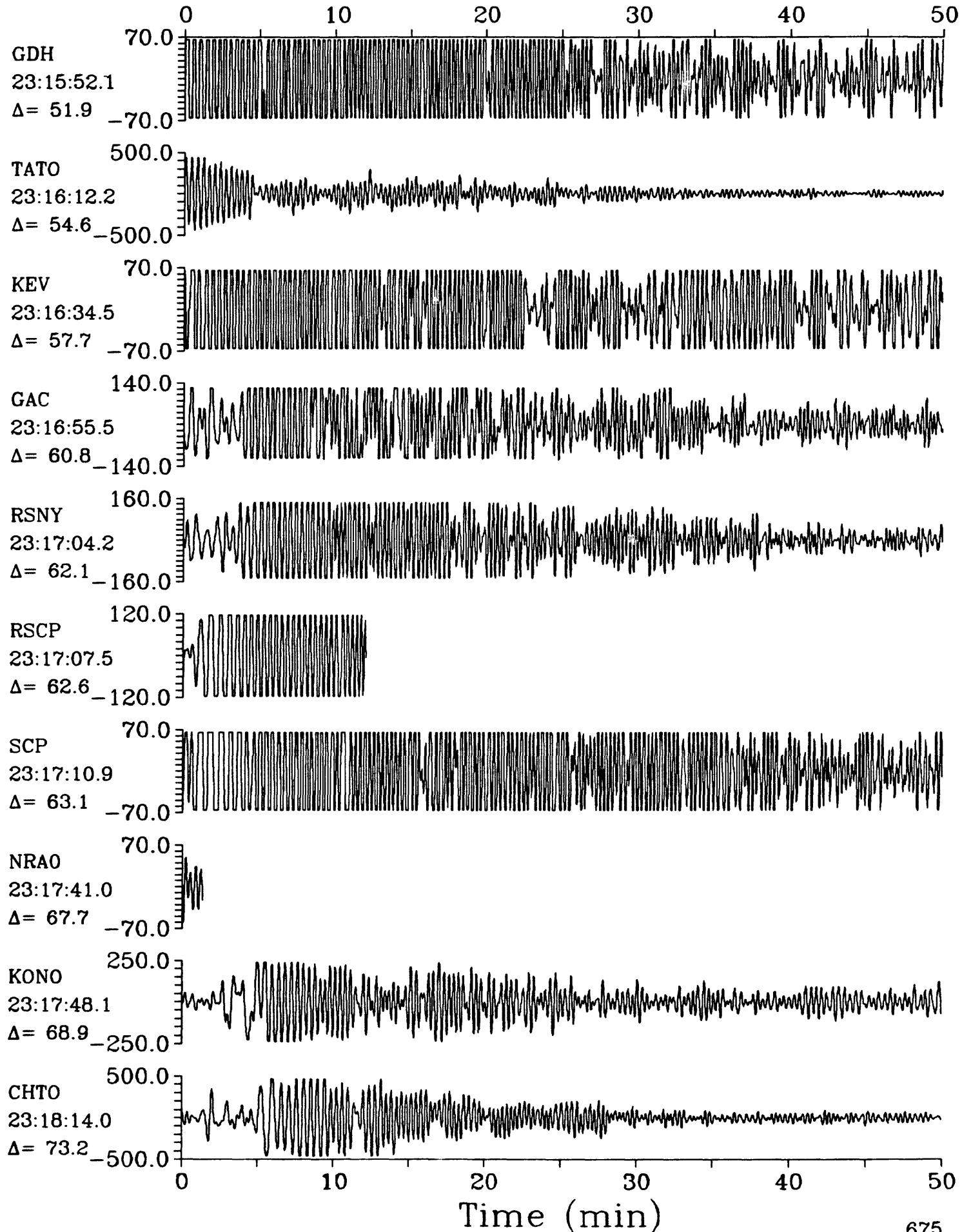
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

LPZ

07 May 1986 23:07:46.21

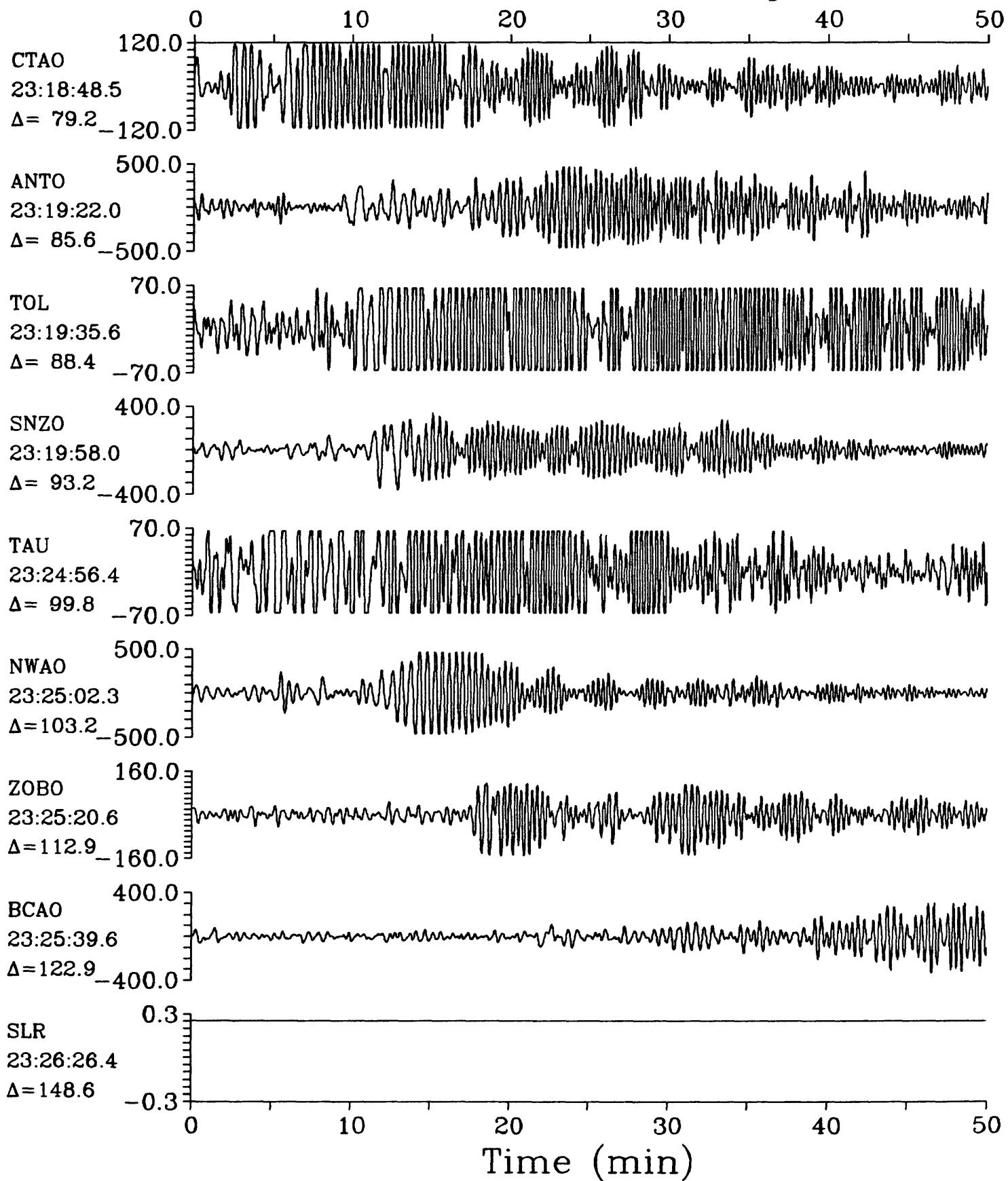
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

LPZ

07 May 1986 23:07:46.21

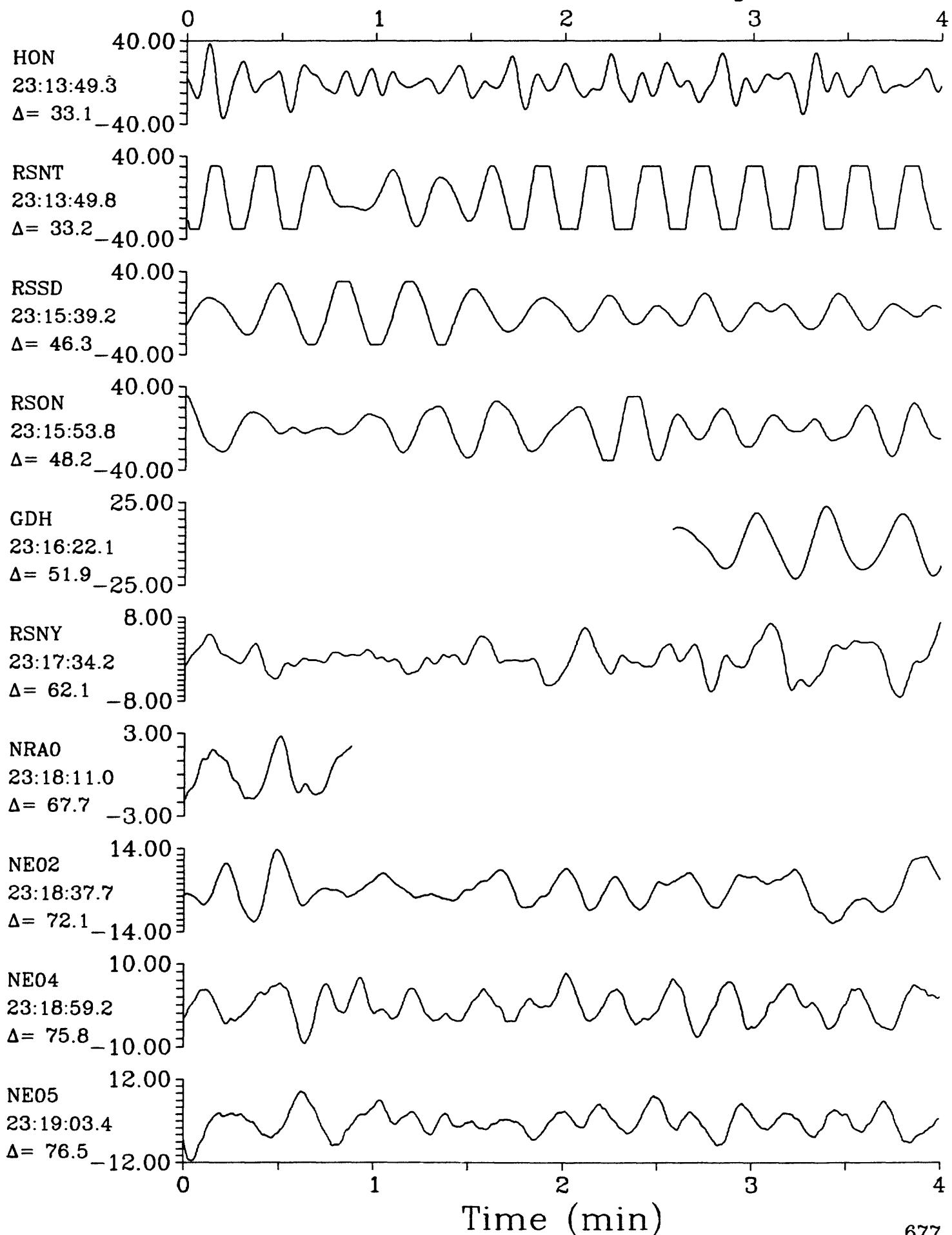
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

IPZ

07 May 1986 23:07:46.21

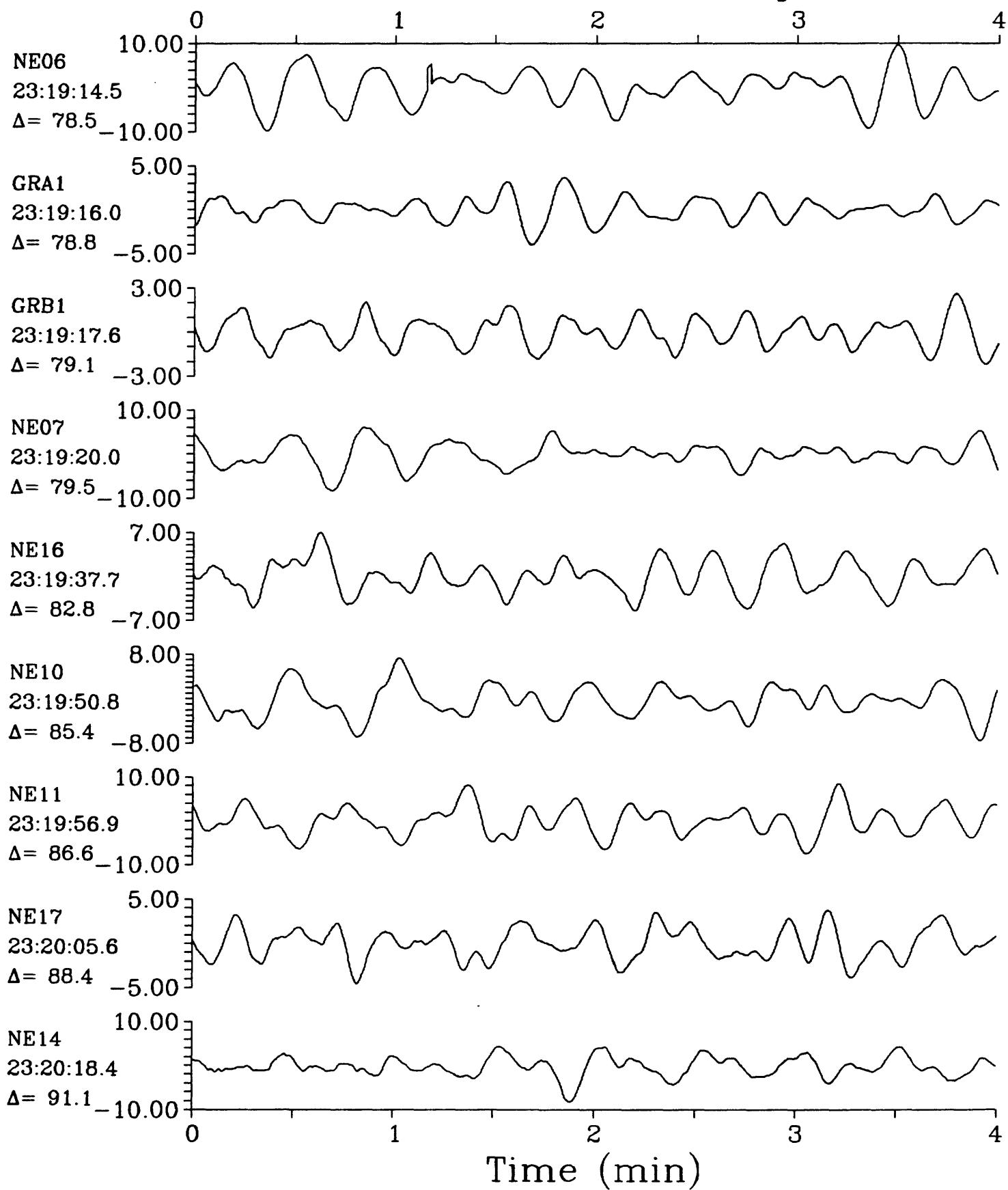
IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

IPZ

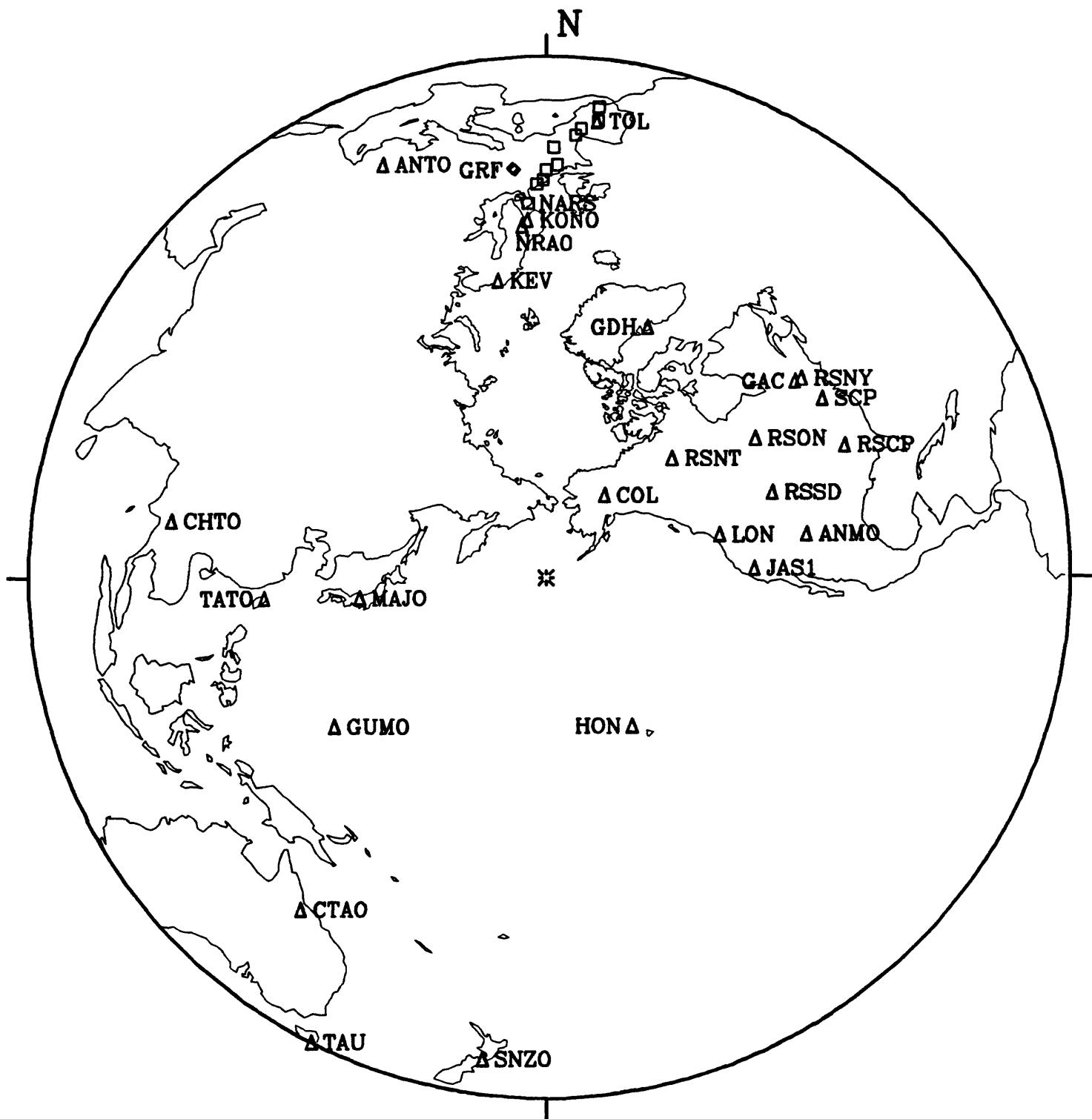
07 May 1986 23:07:46.21

IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

07 May 1986 23:15:04.88

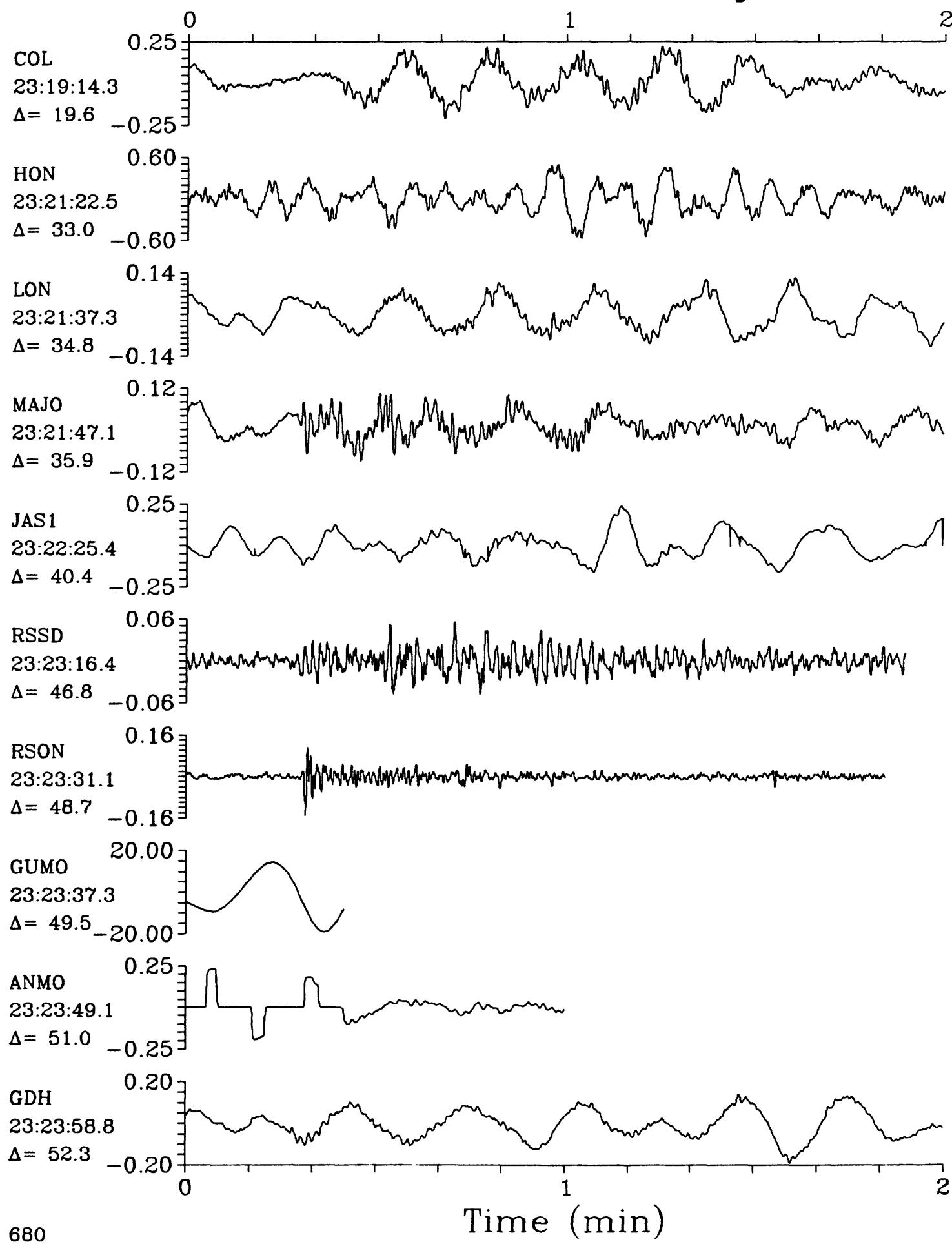
Andreanof Islands, Aleutian Is.



SPZ

07 May 1986 23:15:04.88

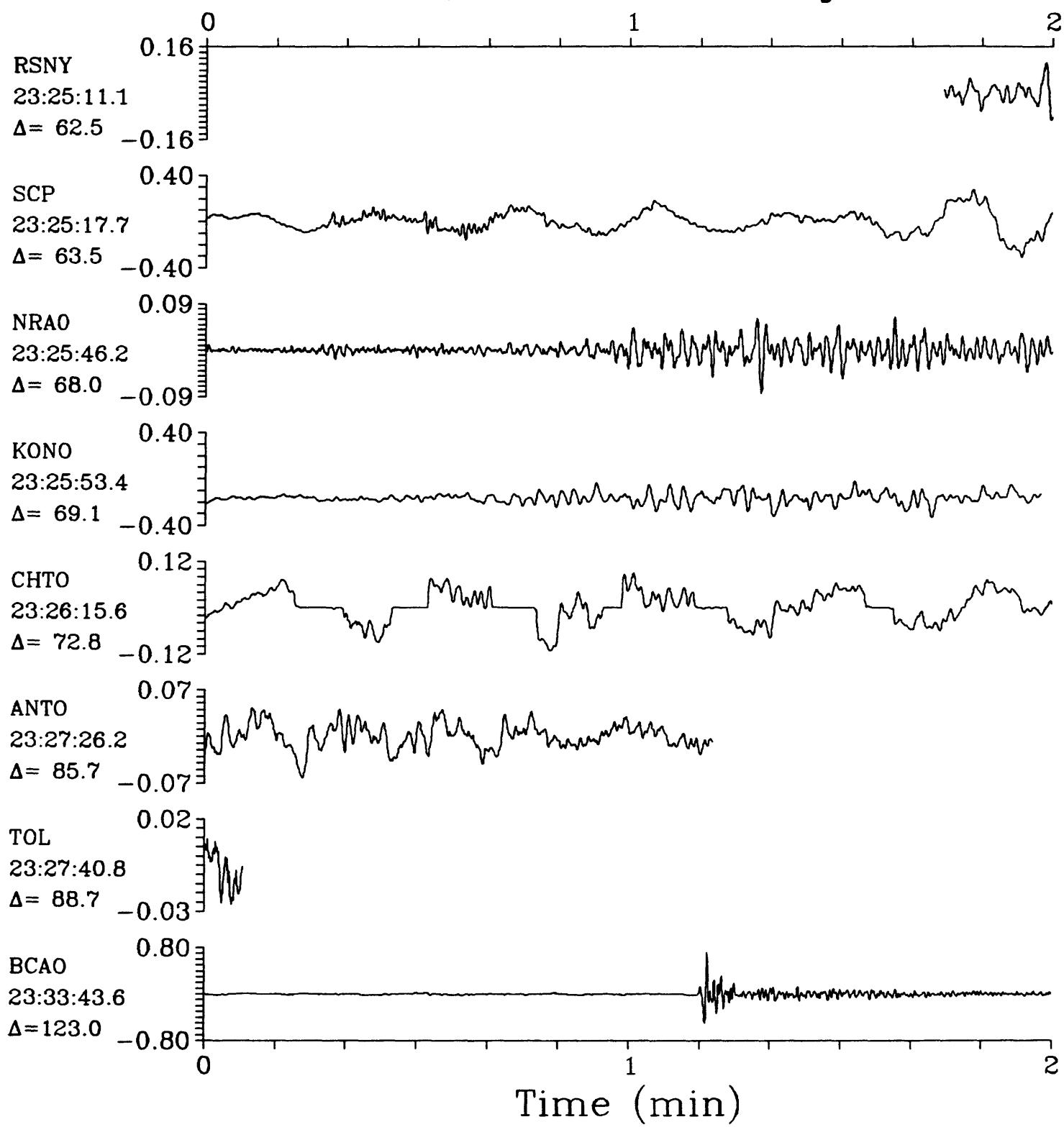
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ 

SPZ

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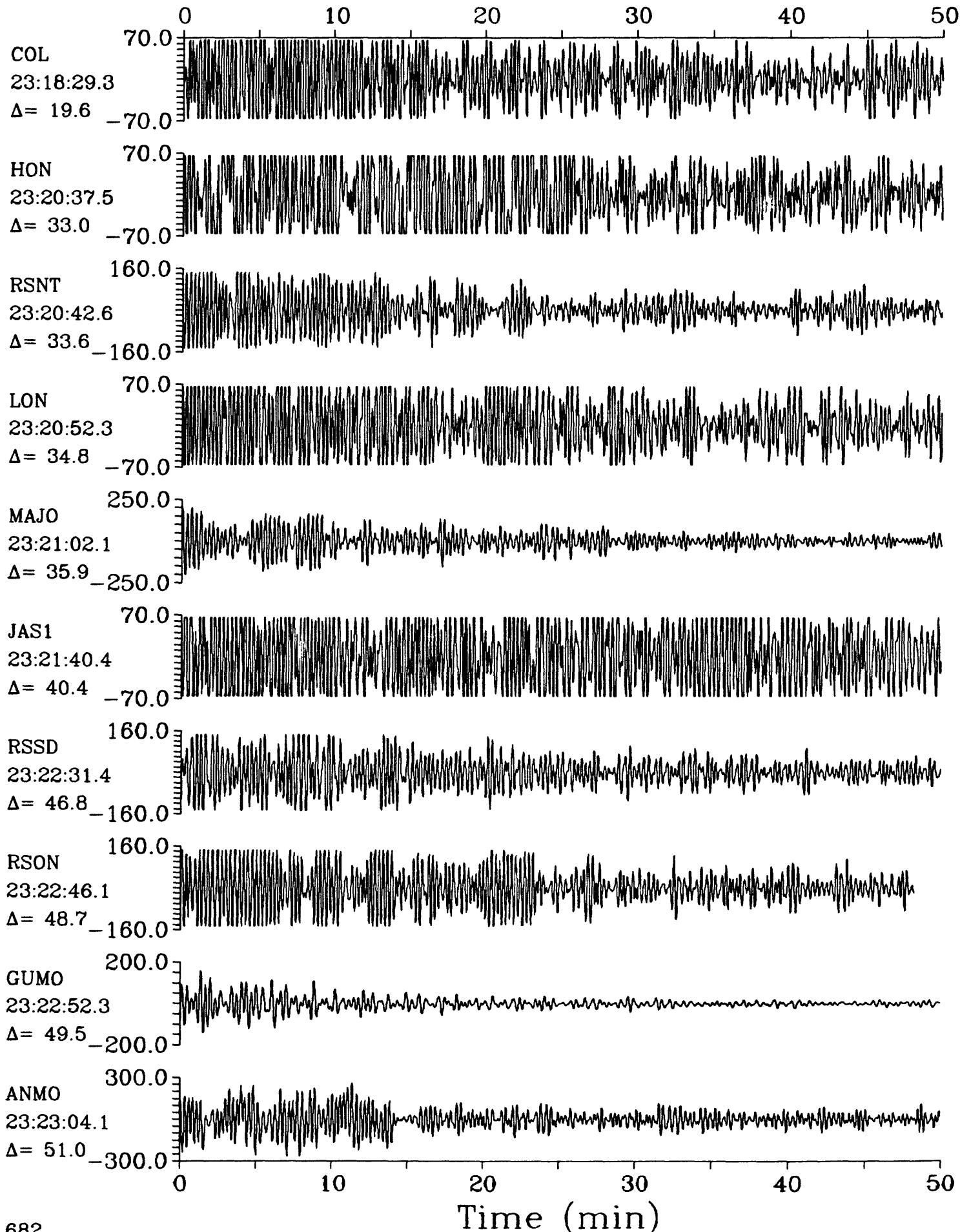
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ 

LPZ

07 May 1986 23:15:04.88

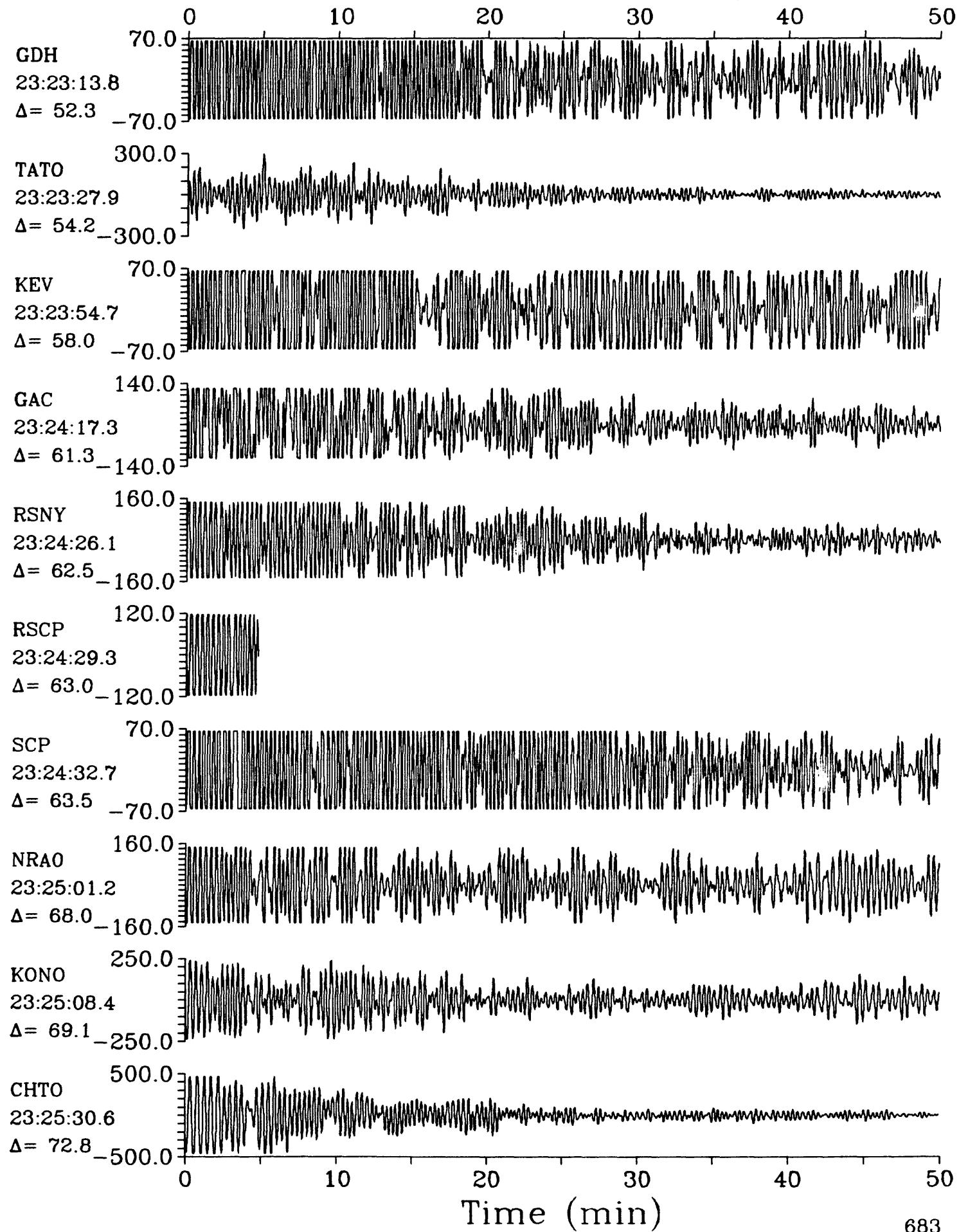
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ 

LPZ

07 May 1986 23:15:04.88

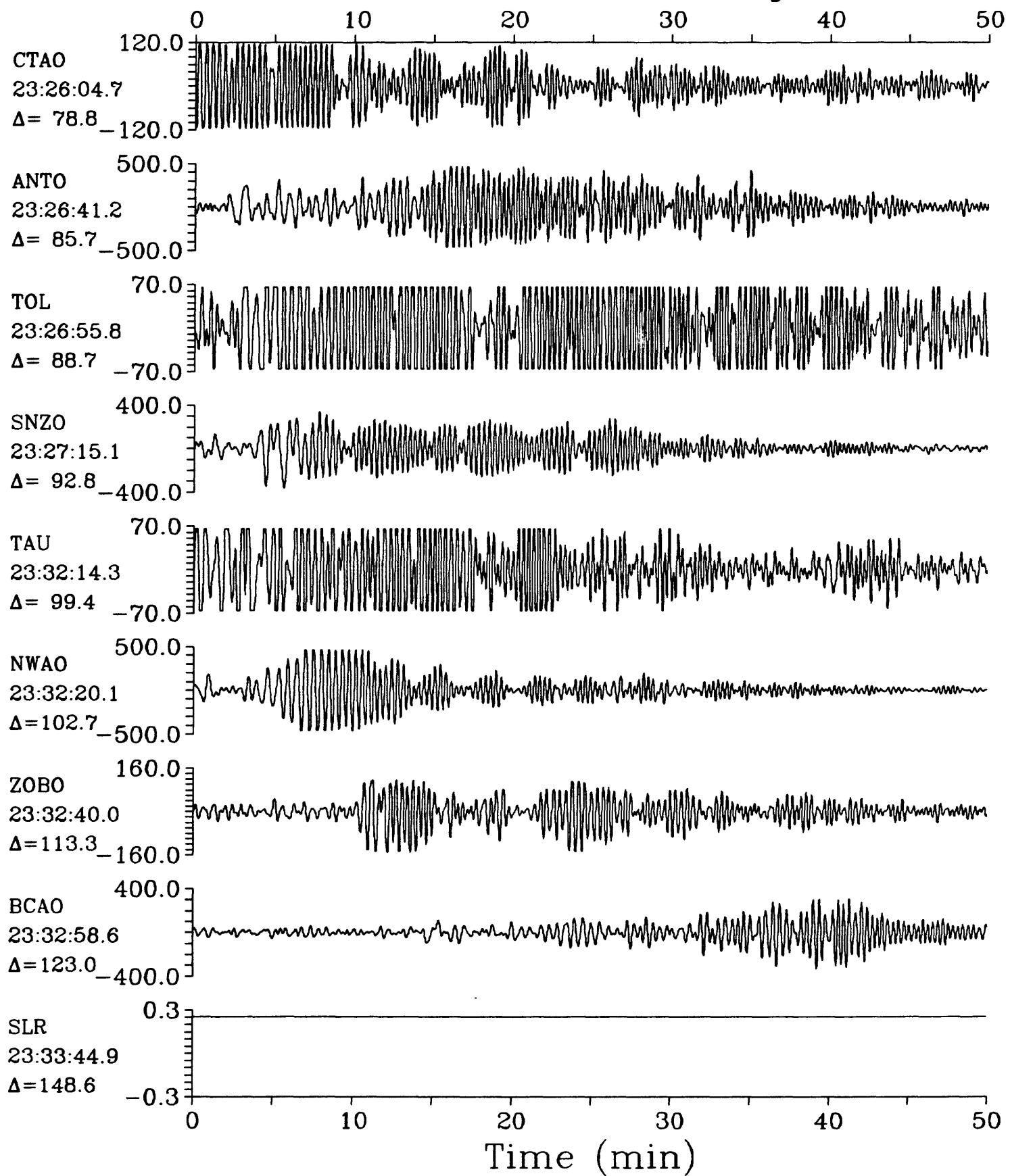
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ 

LPZ

07 May 1986 23:15:04.88

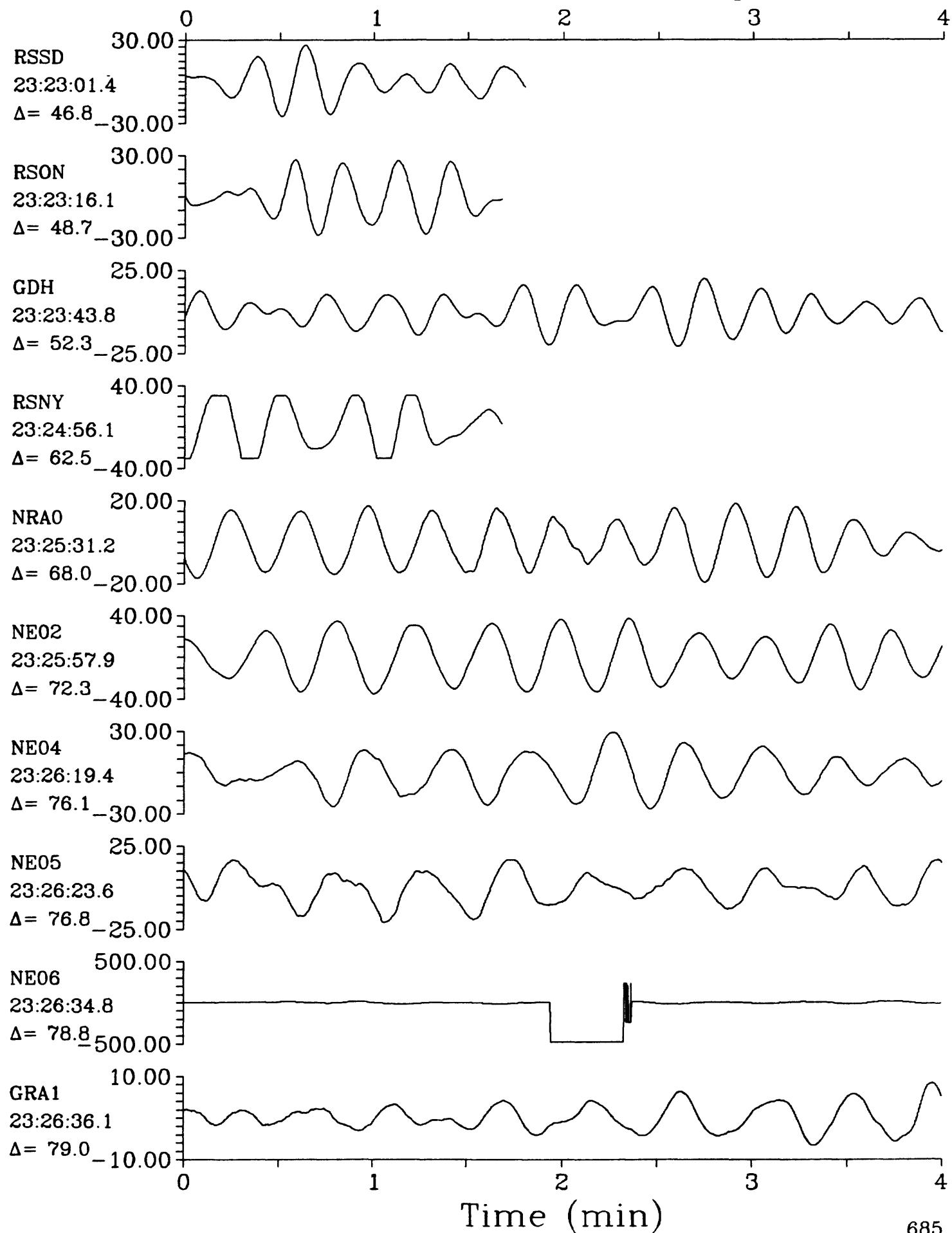
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ 

IPZ

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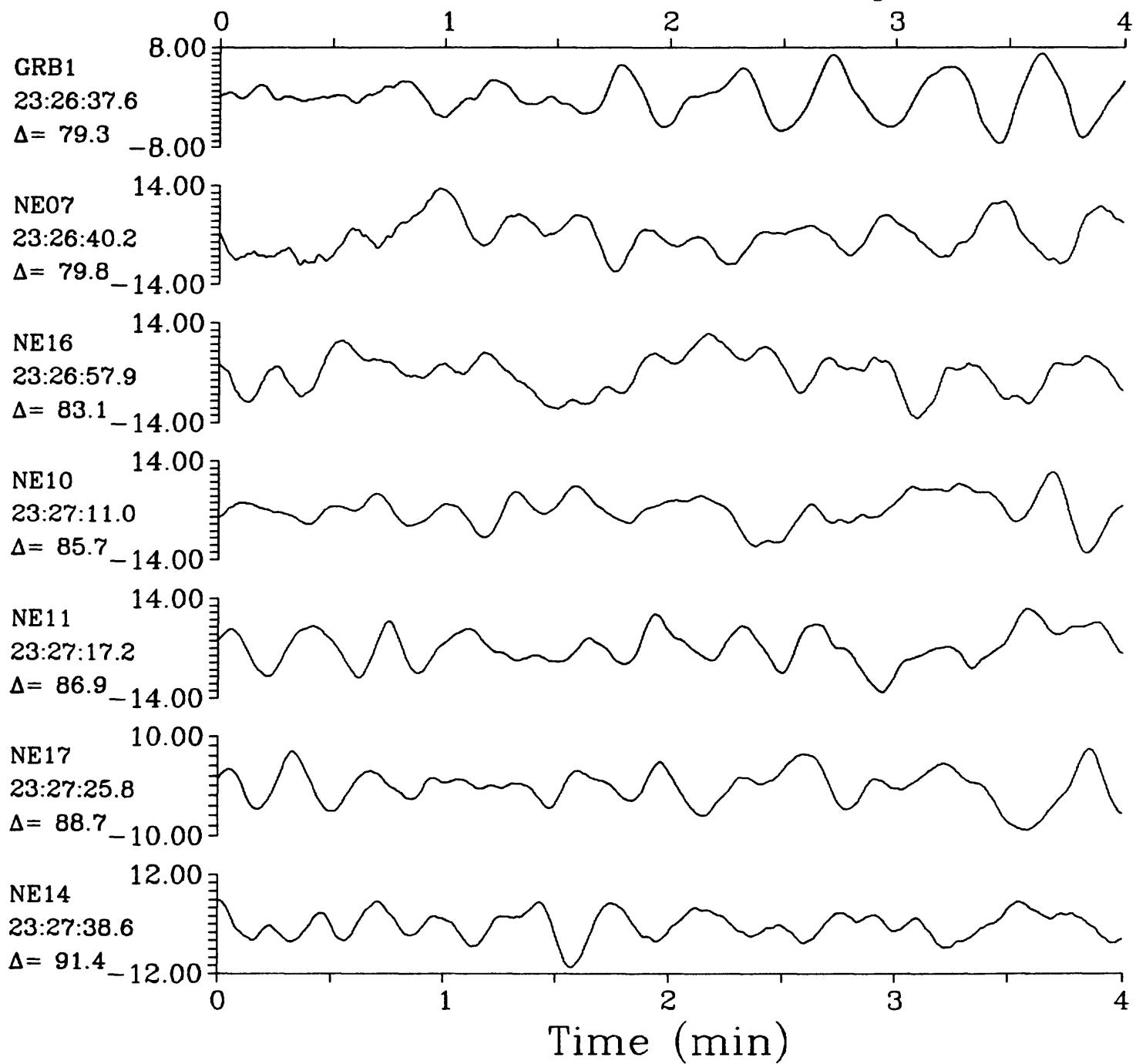
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ 

IPZ

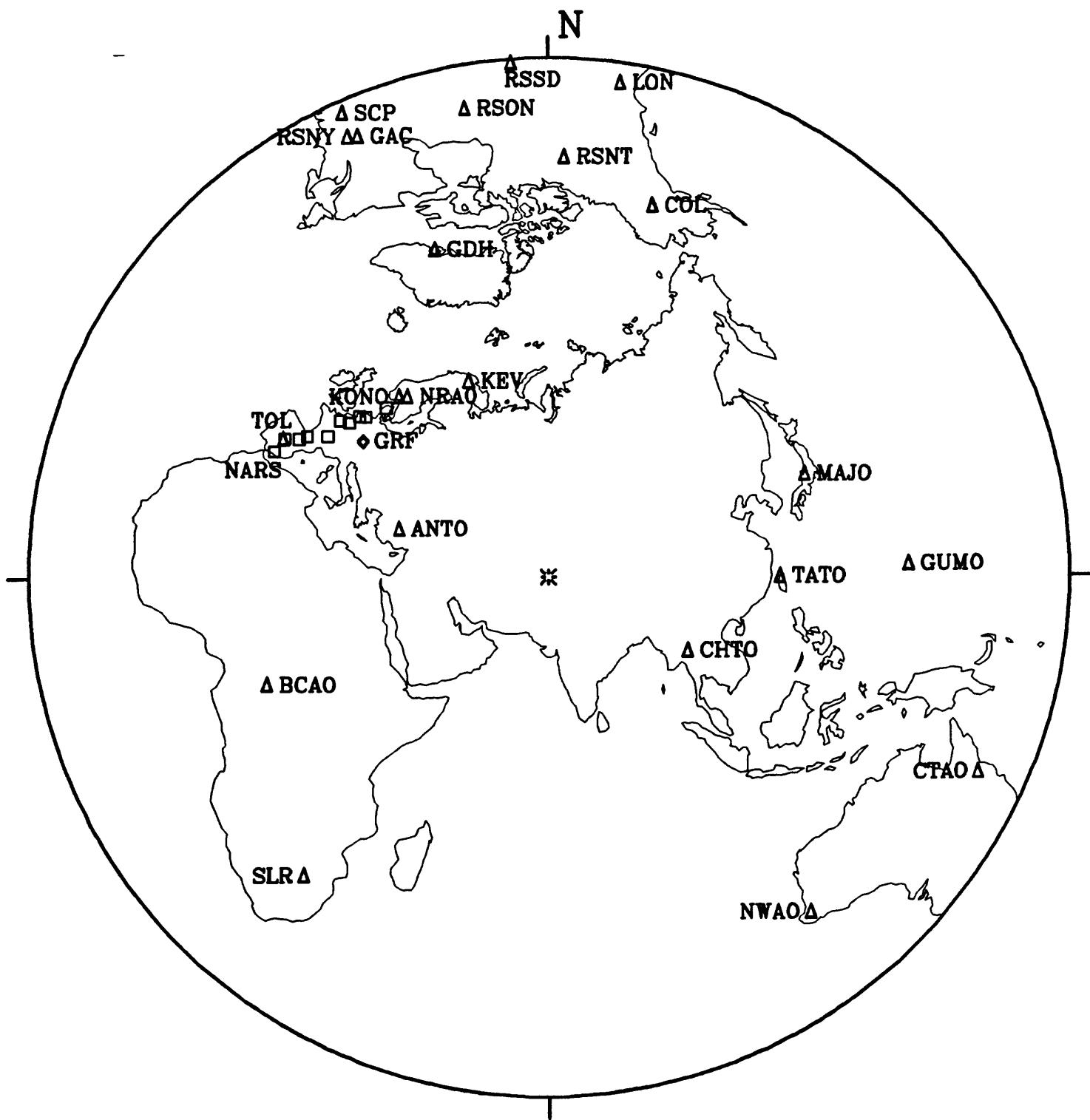
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IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ 

07 May 1986 23:25:33.11

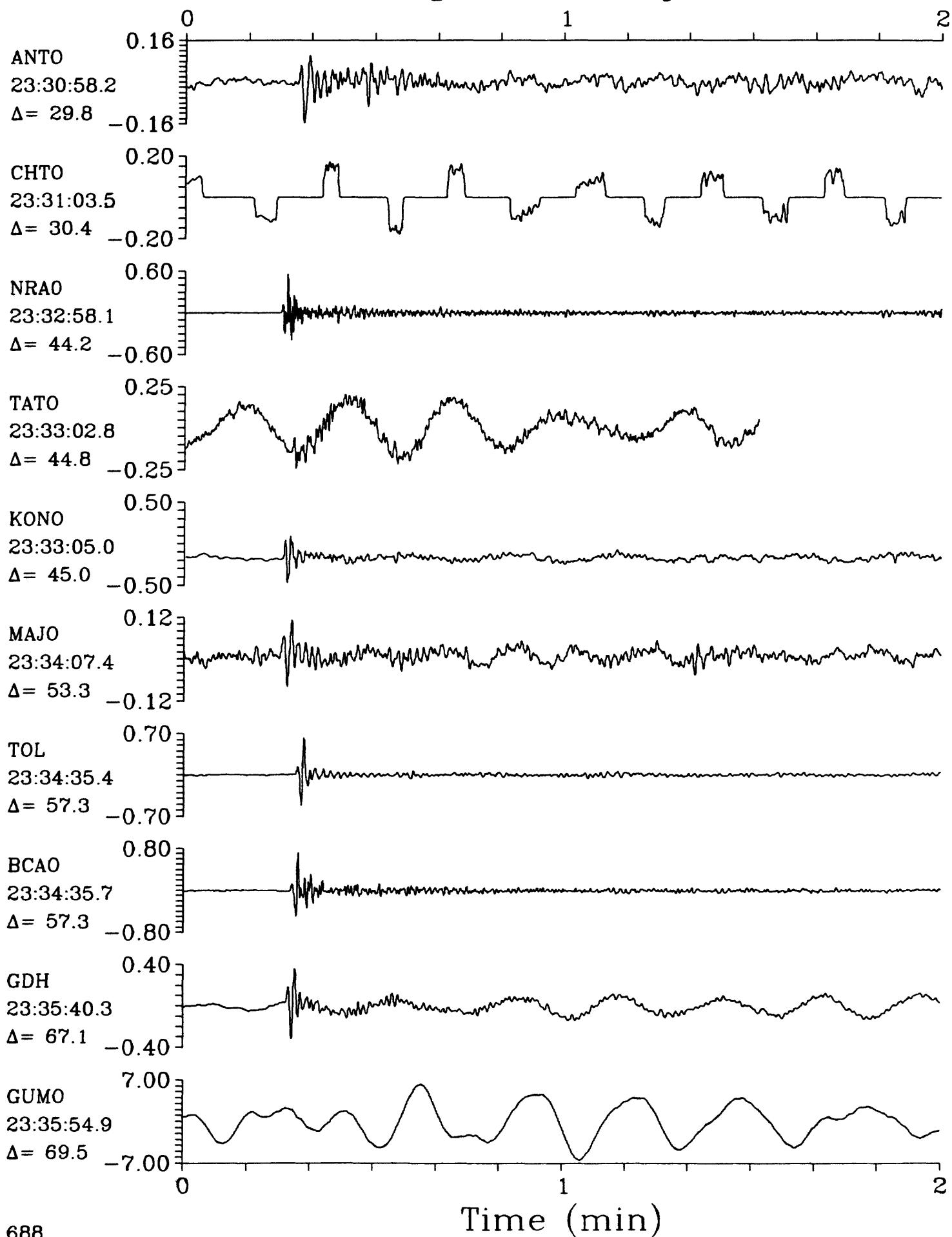
Hindu Kush Region



SPZ

07 May 1986 23:25:33.11
Hindu Kush Region $h=296.5$ $m_b=5.5$

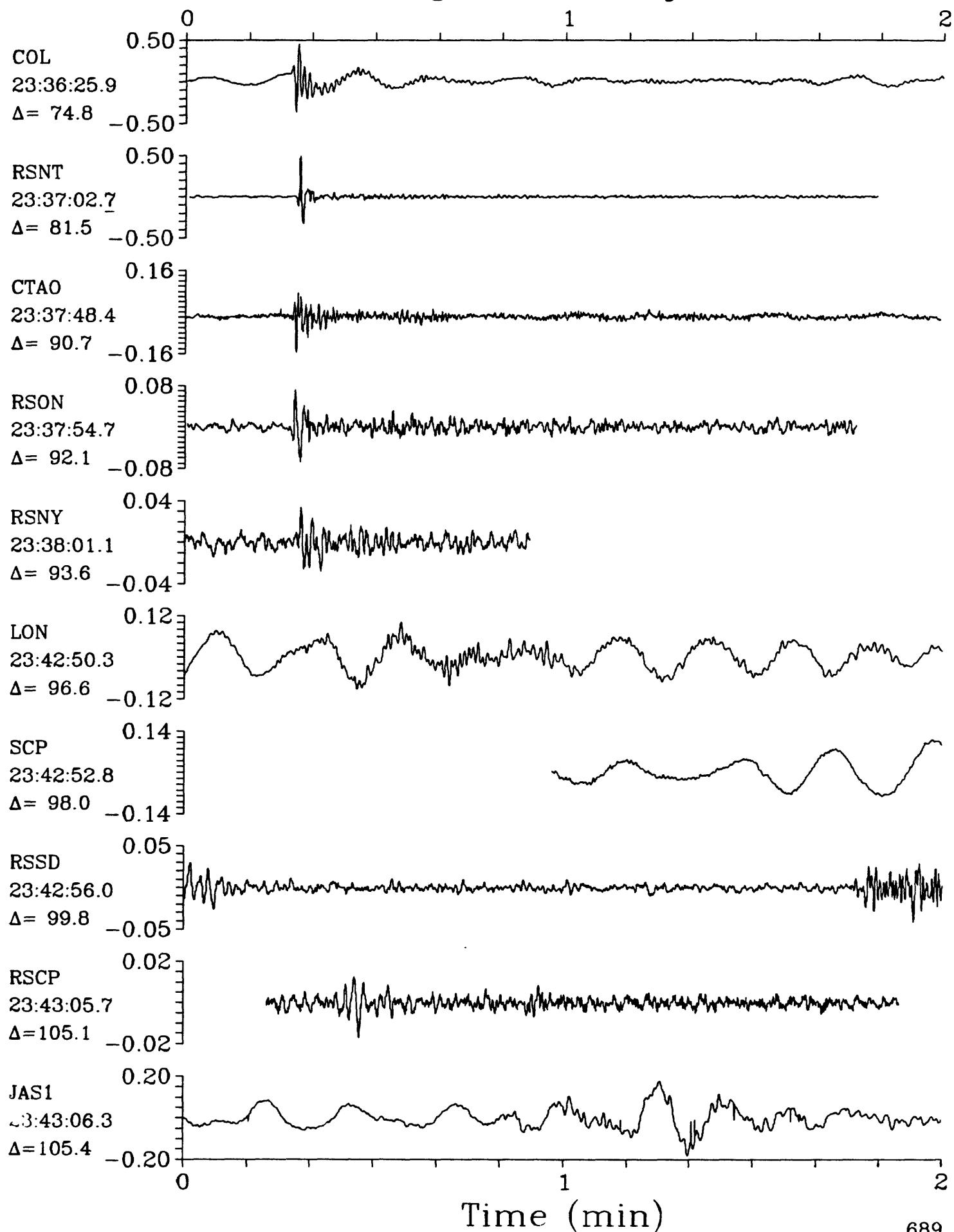
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SPZ

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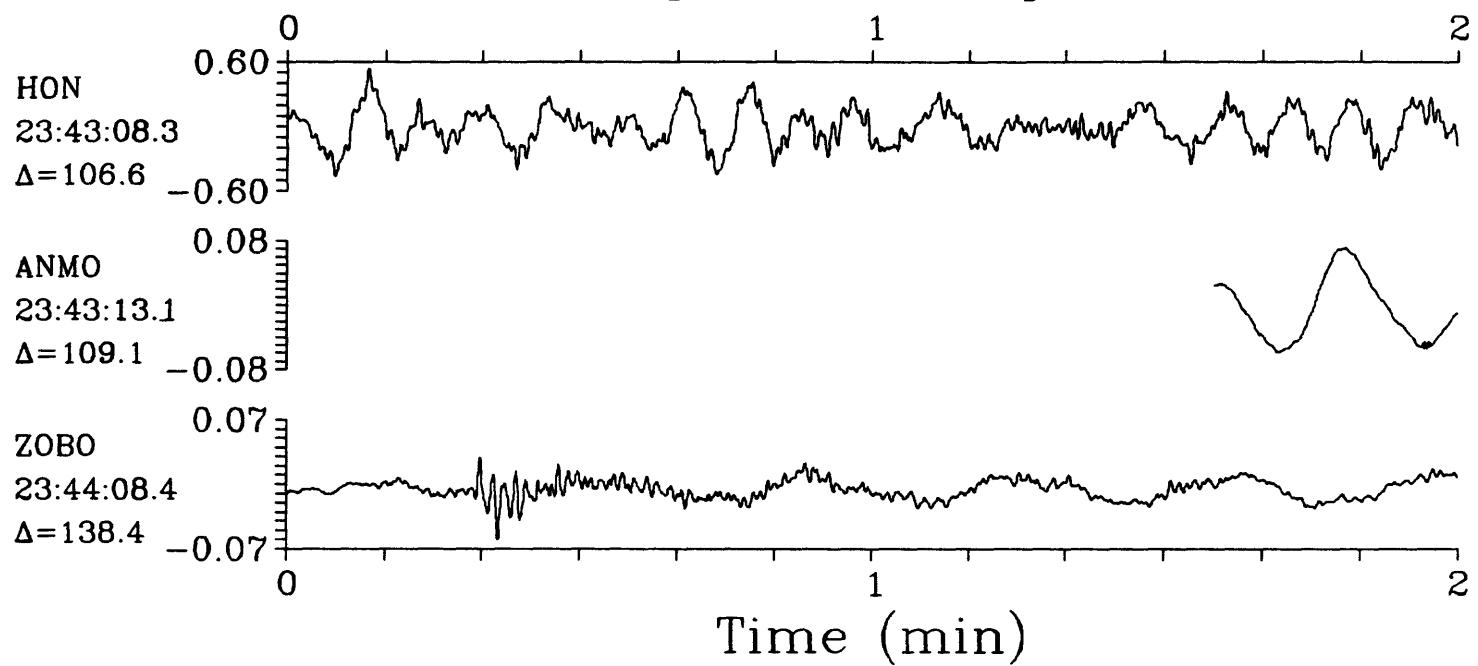
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SPZ

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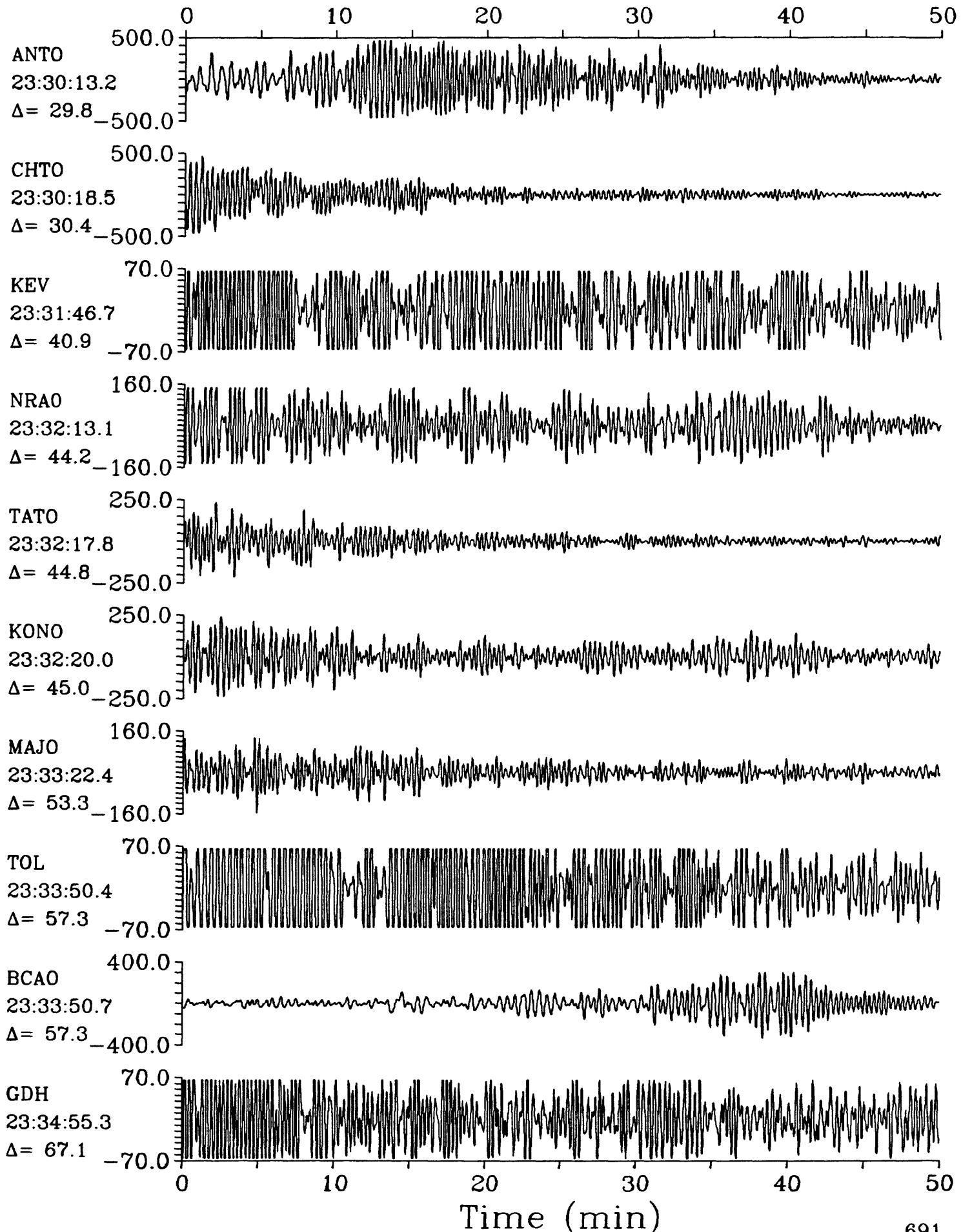
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LPZ

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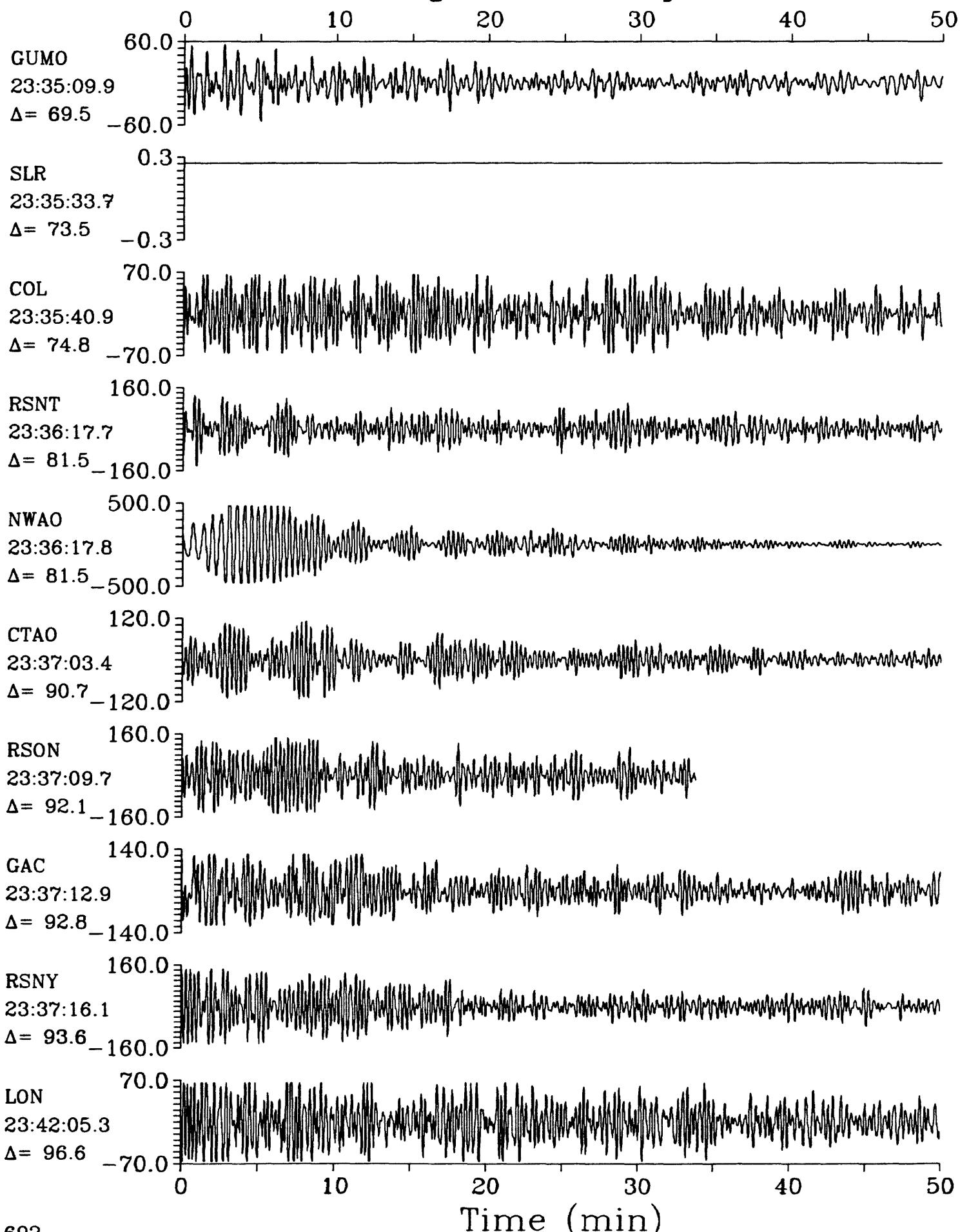
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LPZ

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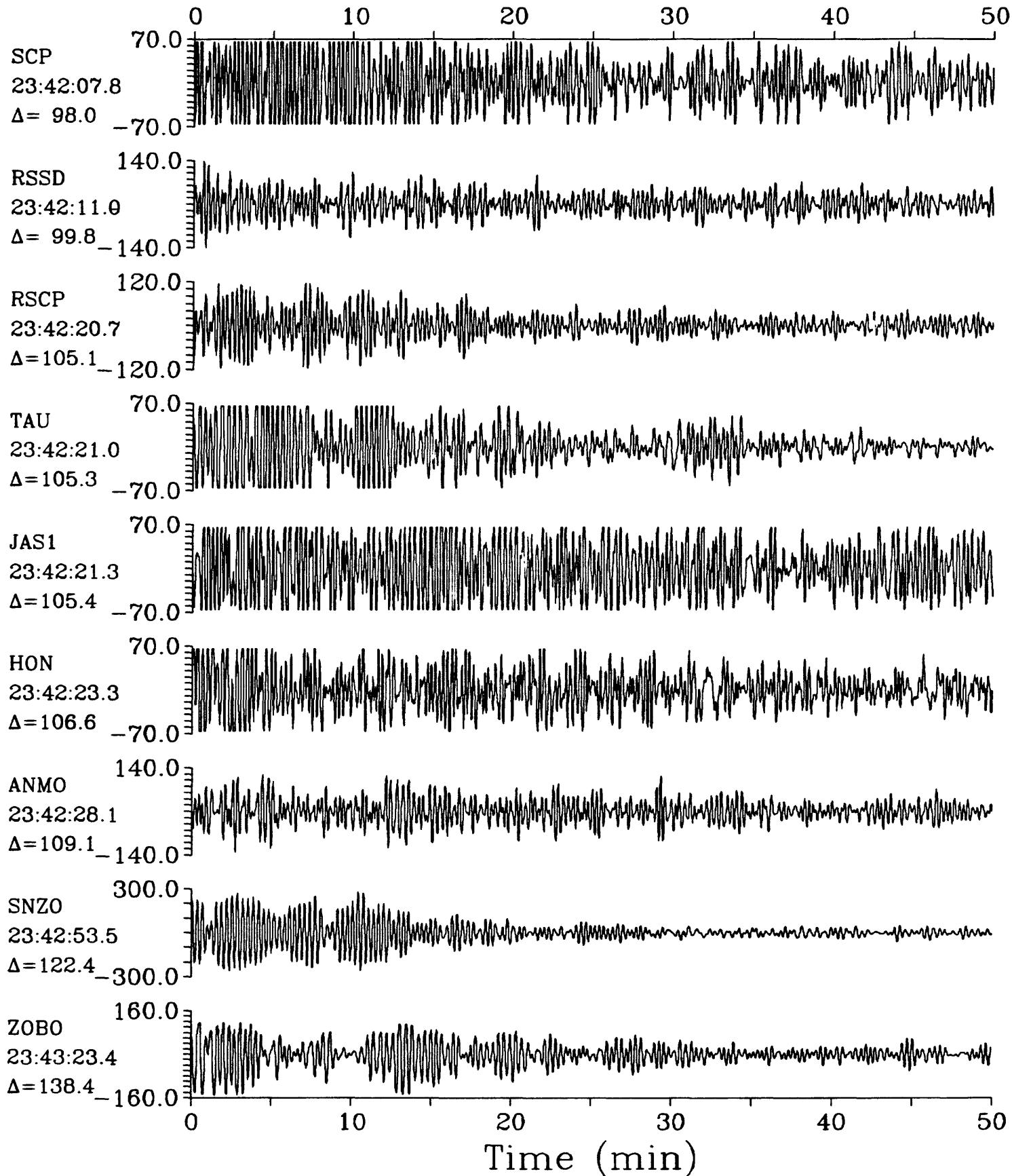
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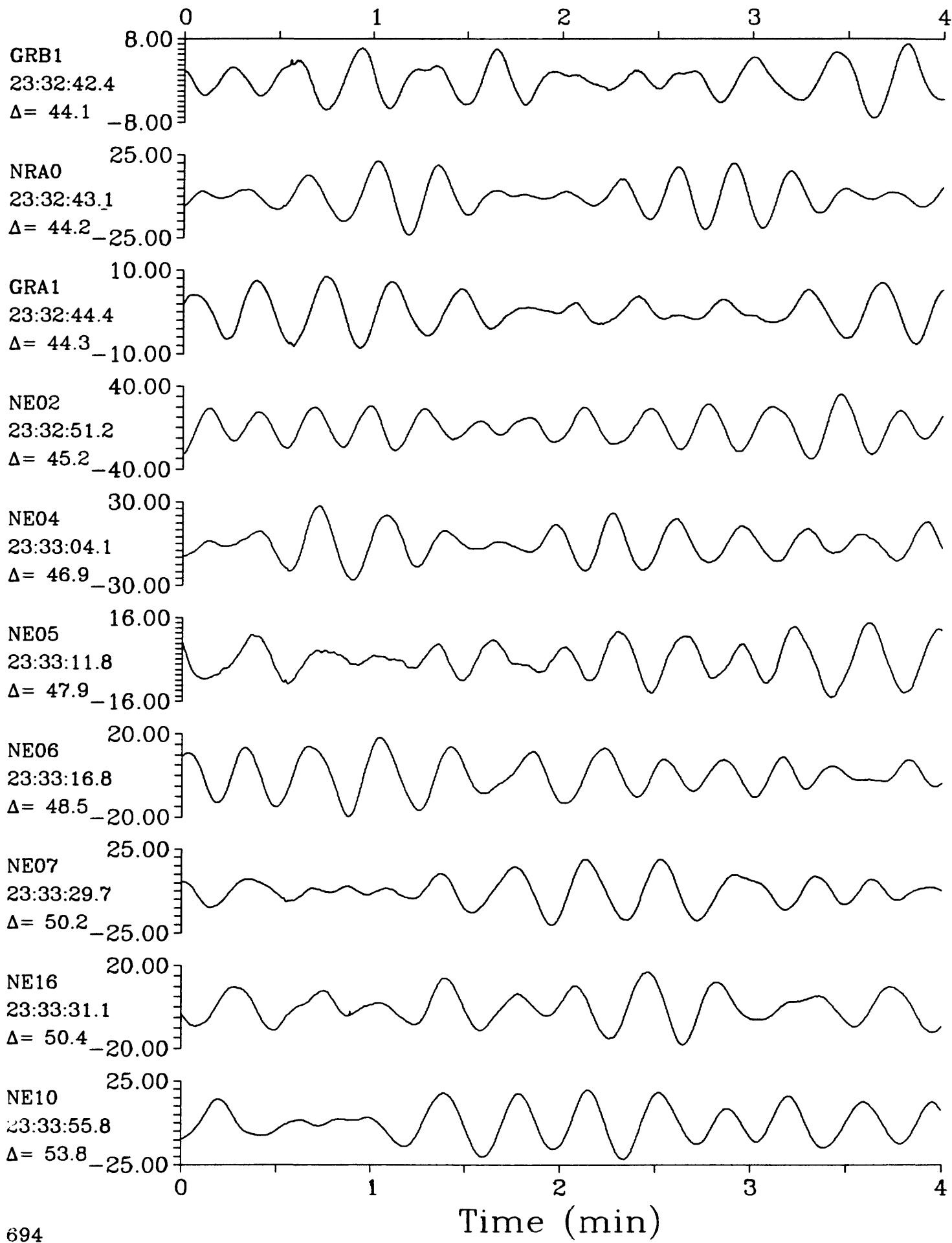
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Hindu Kush Region $h=296.5$ $m_b=5.5$ 

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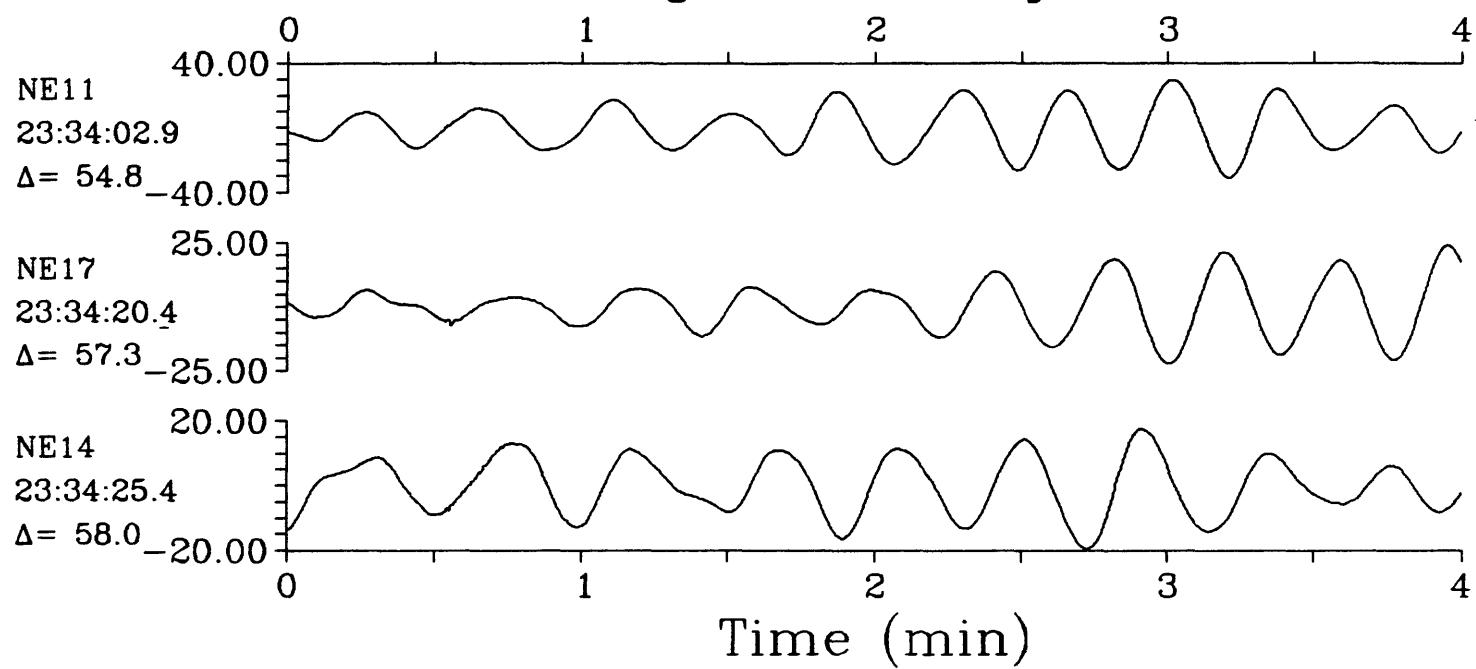
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IPZ

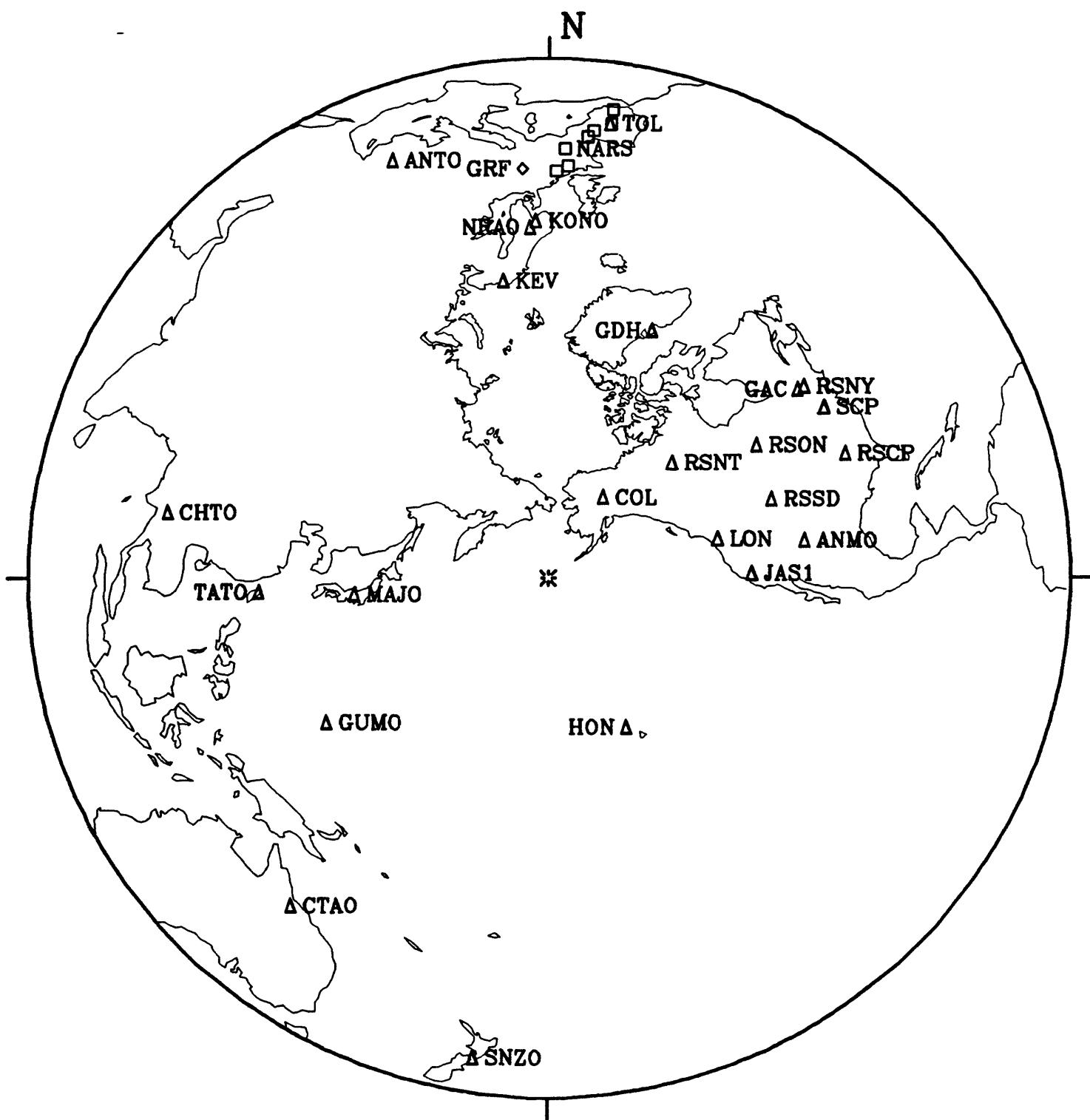
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Hindu Kush Region $h=296.5$ $m_b=5.5$

IPZ



07 May 1986 23:36:17.49

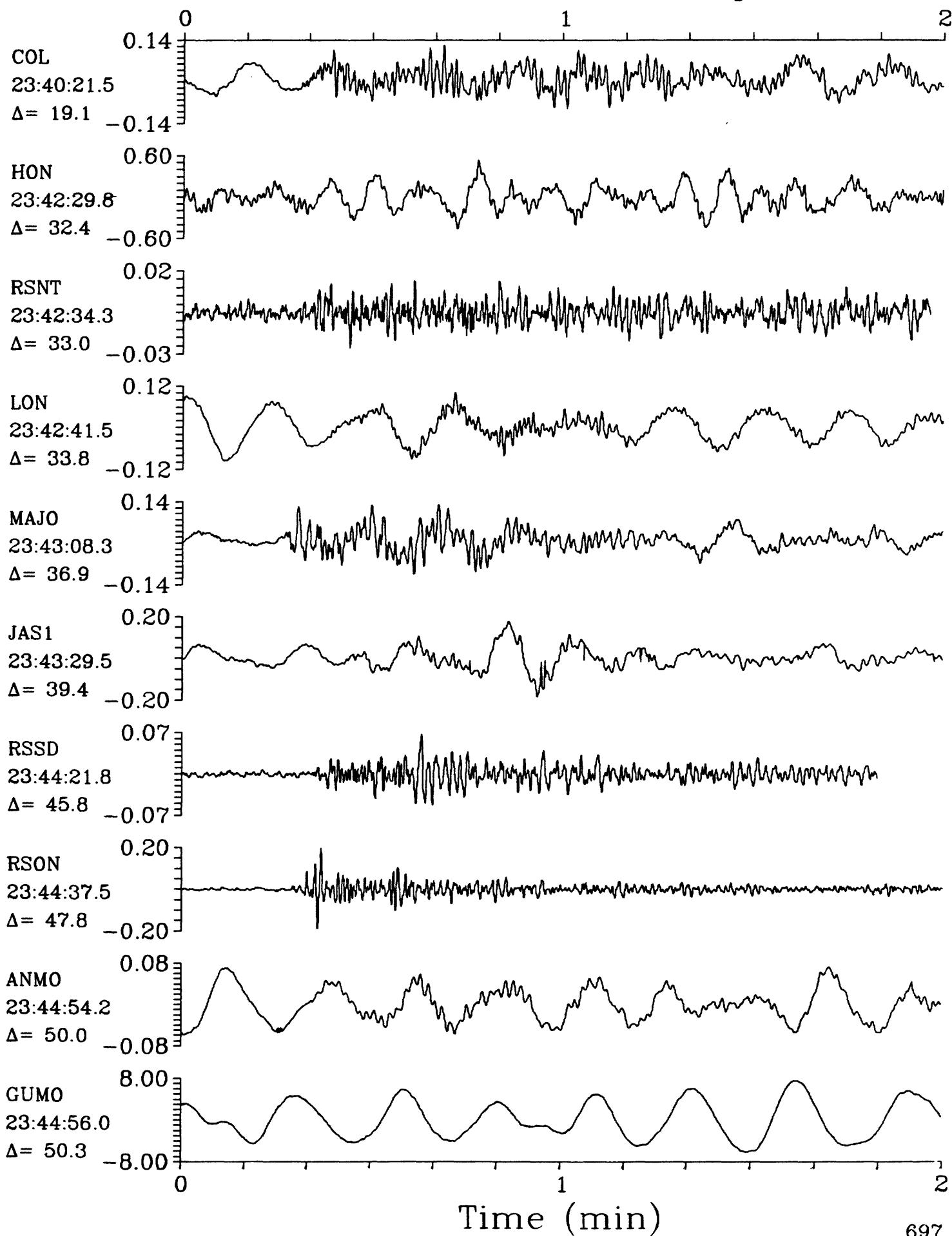
Andreanof Islands, Aleutian Is.



SPZ

07 May 1986 23:36:17.49

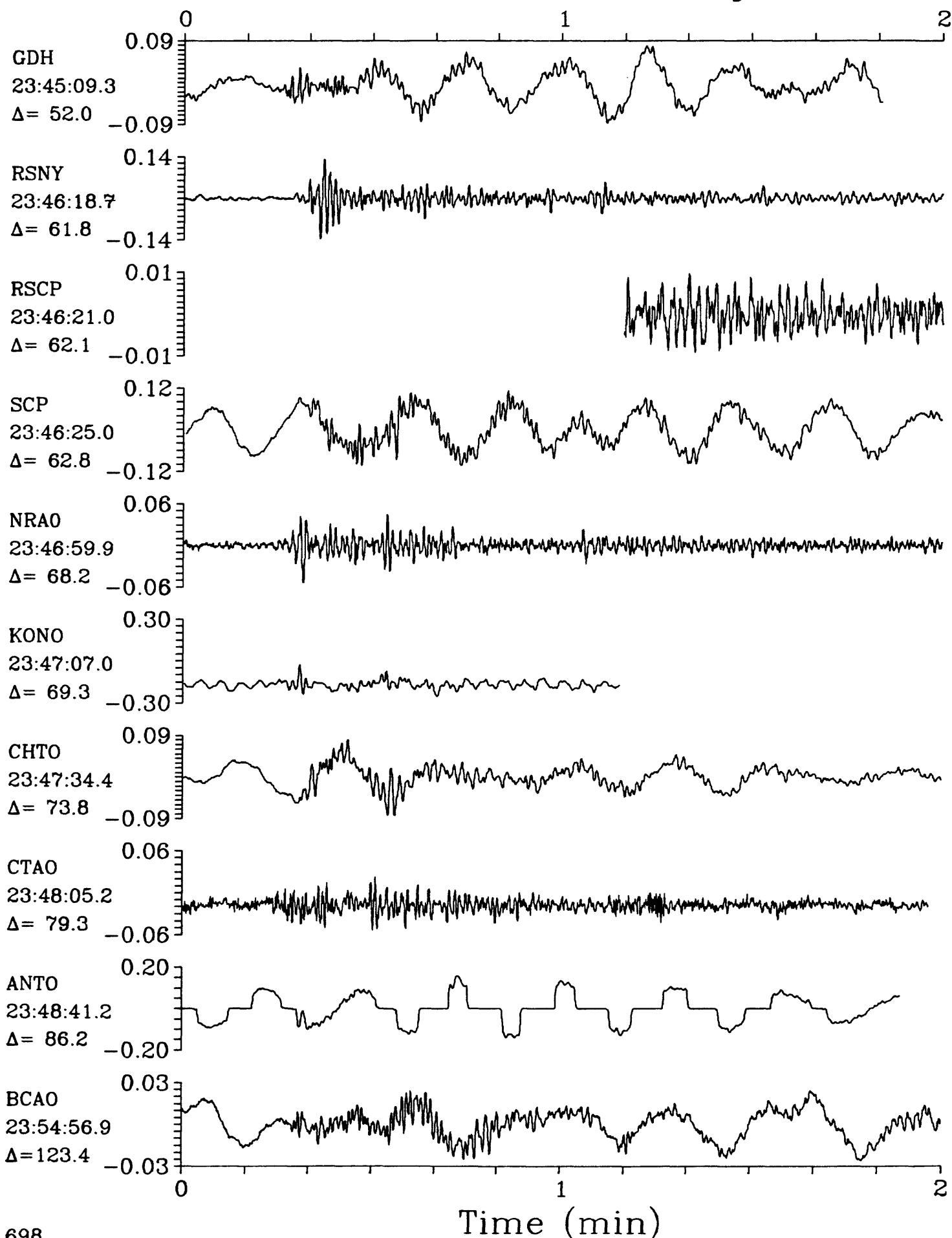
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

SPZ

07 May 1986 23:36:17.49

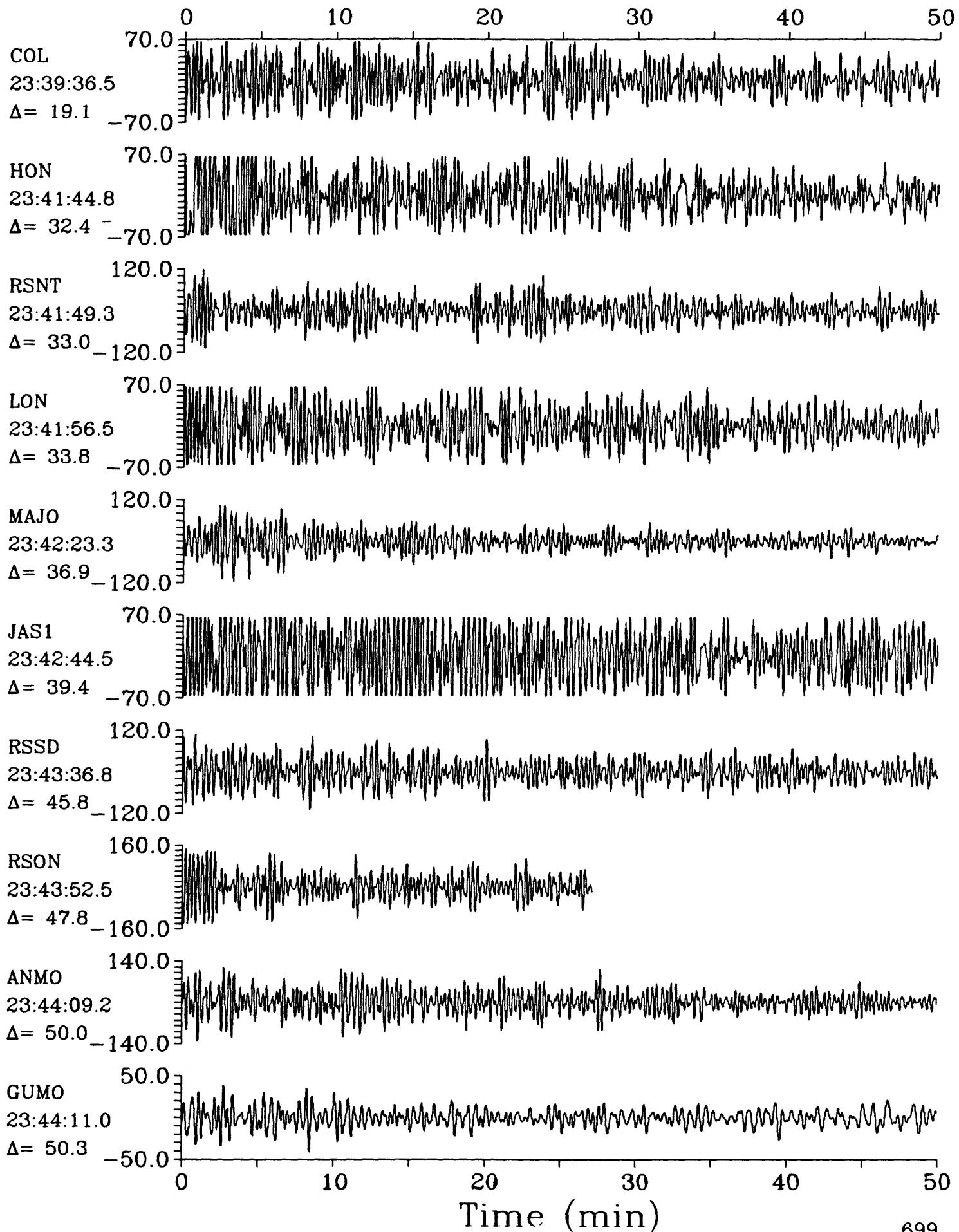
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

LPZ

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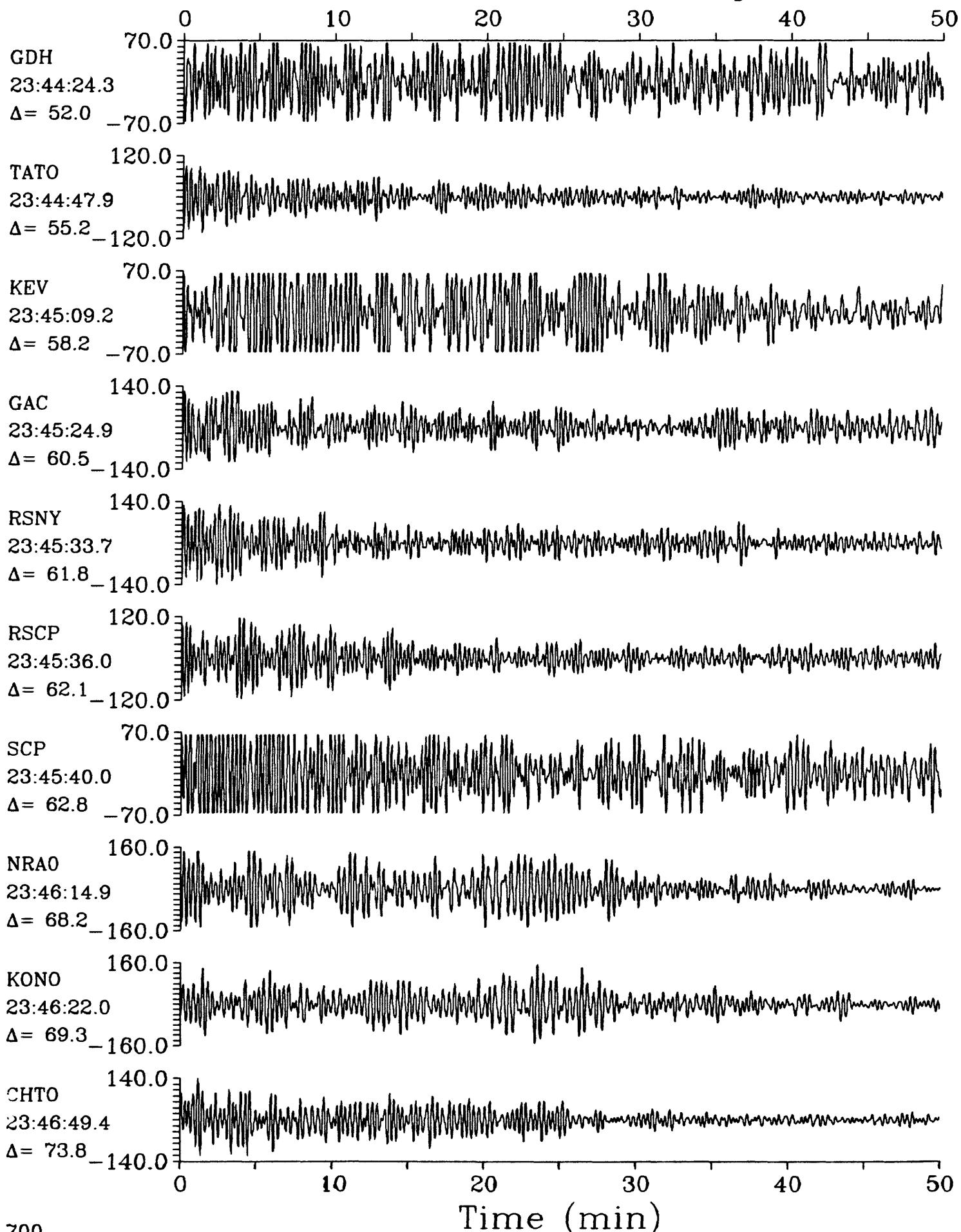
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

LPZ

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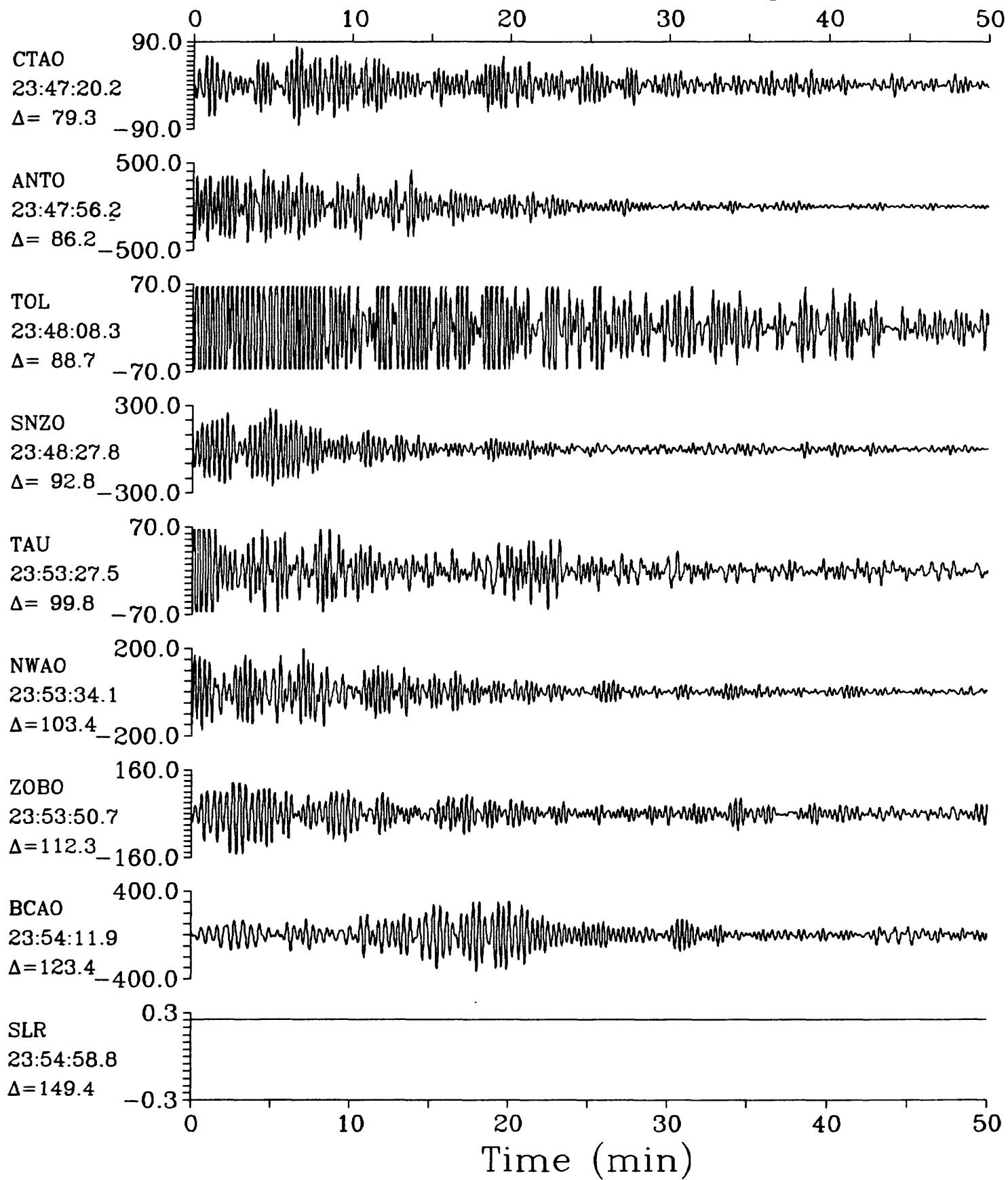
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Andreanof Islands, Aleutian Is. h=33.0 m_b=5.7

LPZ

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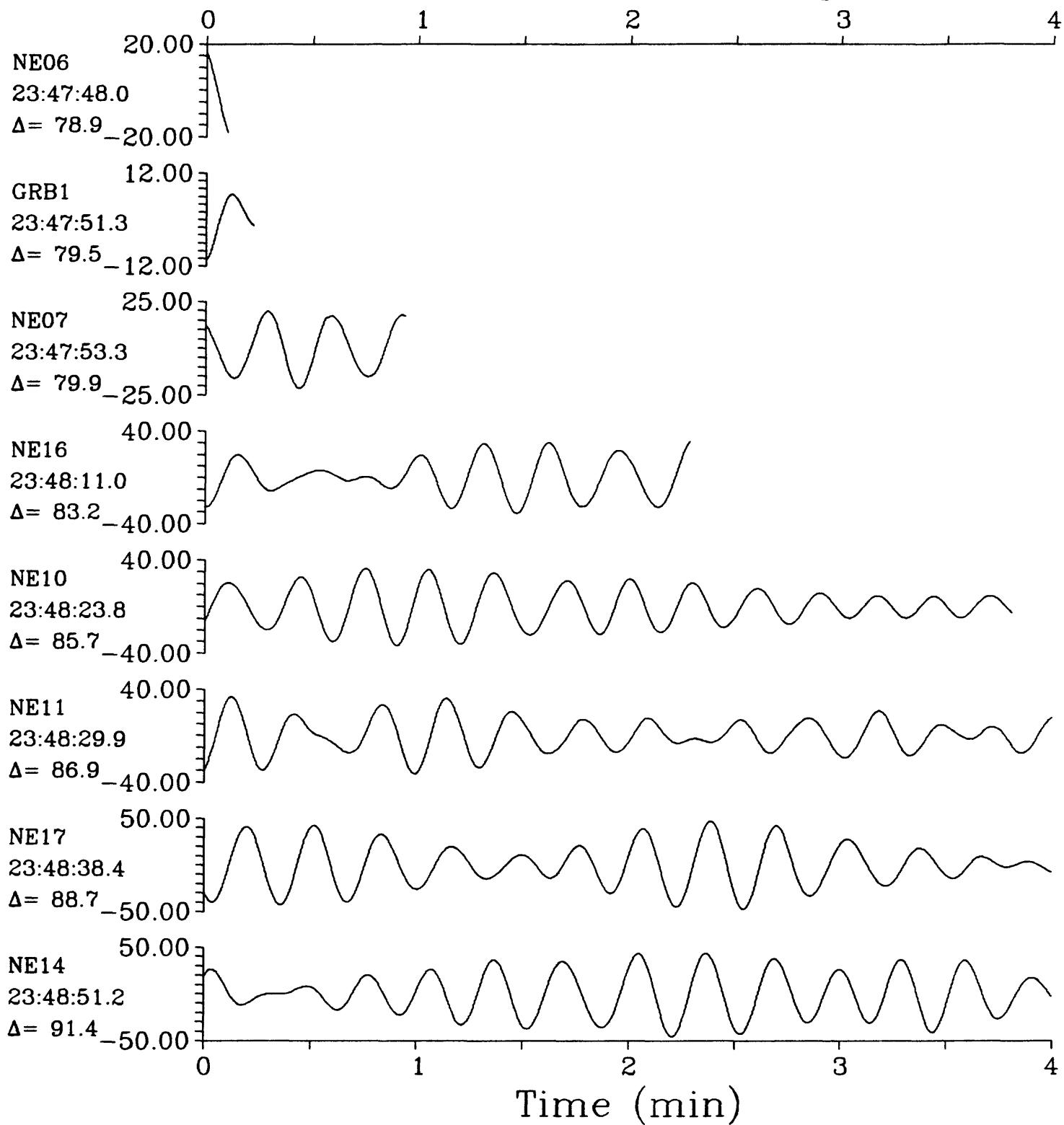
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

IPZ

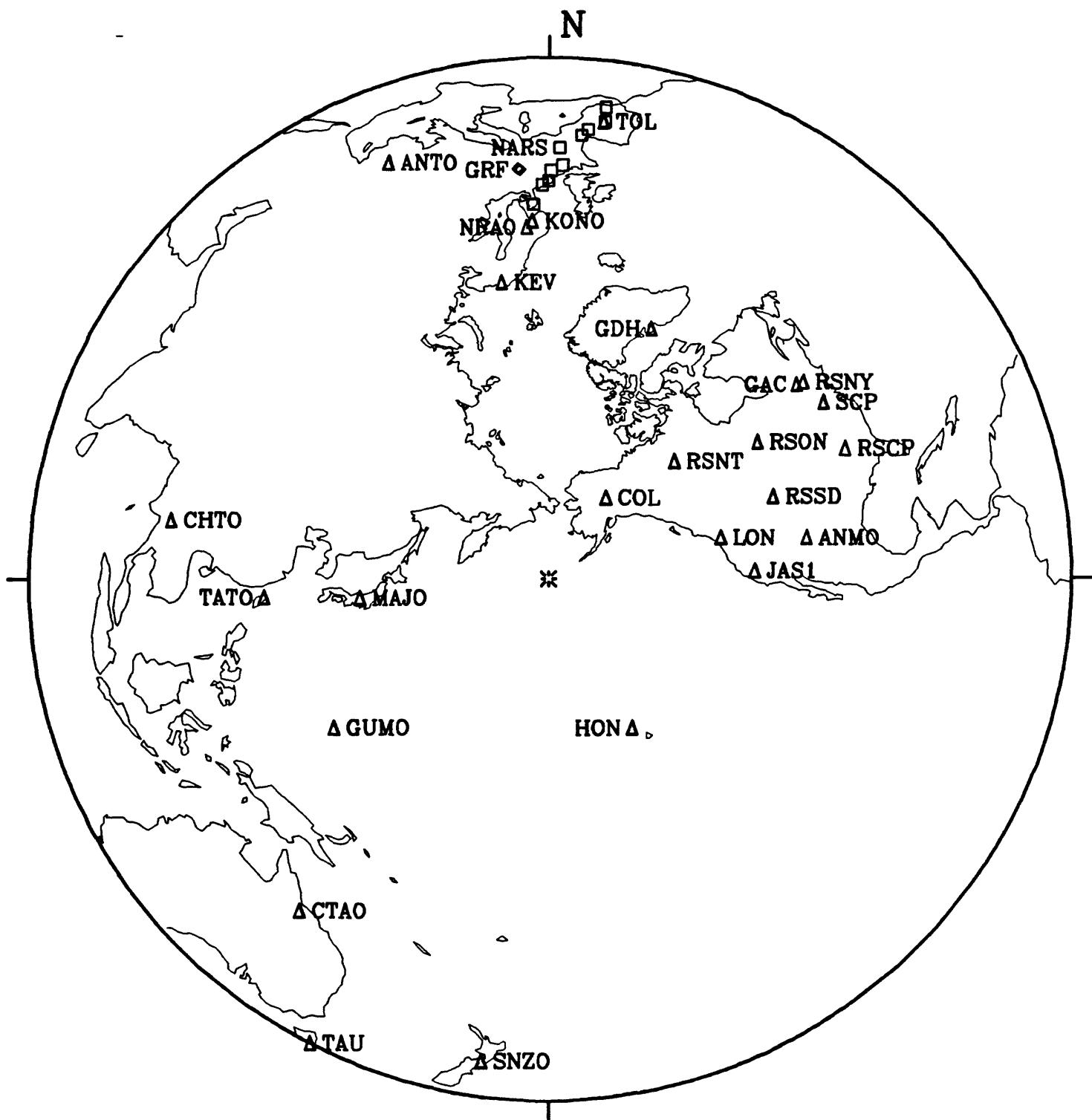
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IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

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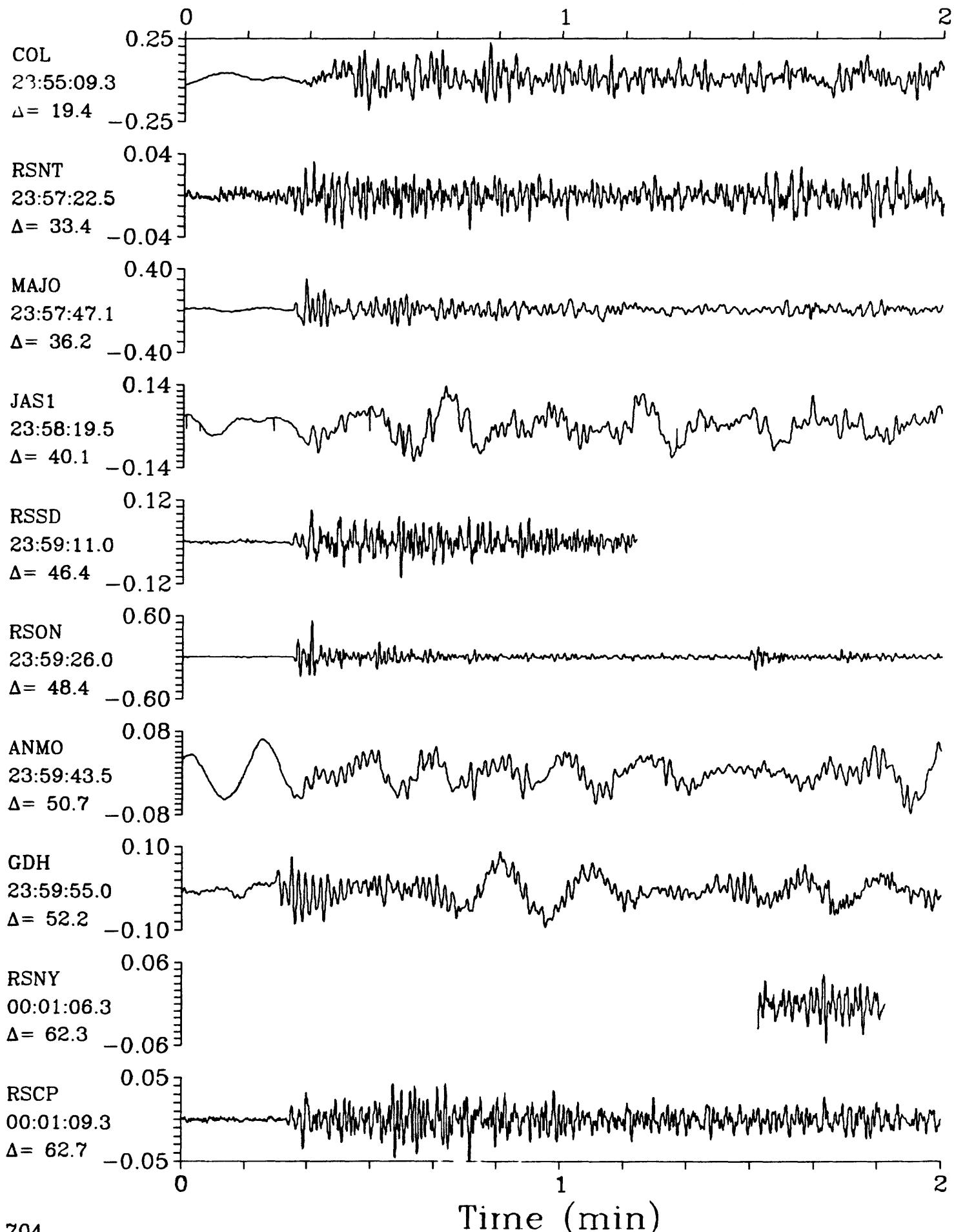
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SPZ

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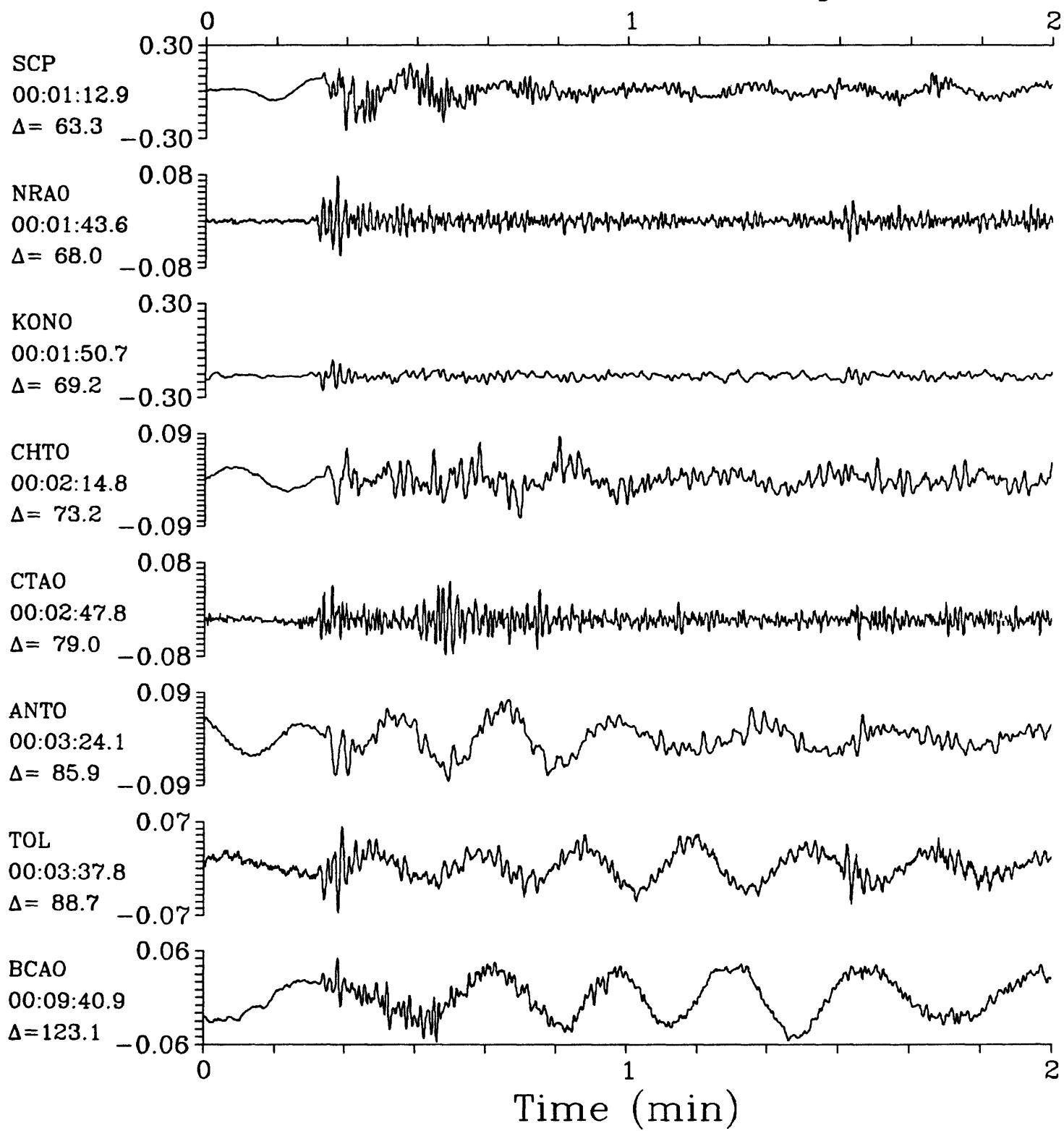
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.8$ 

SPZ

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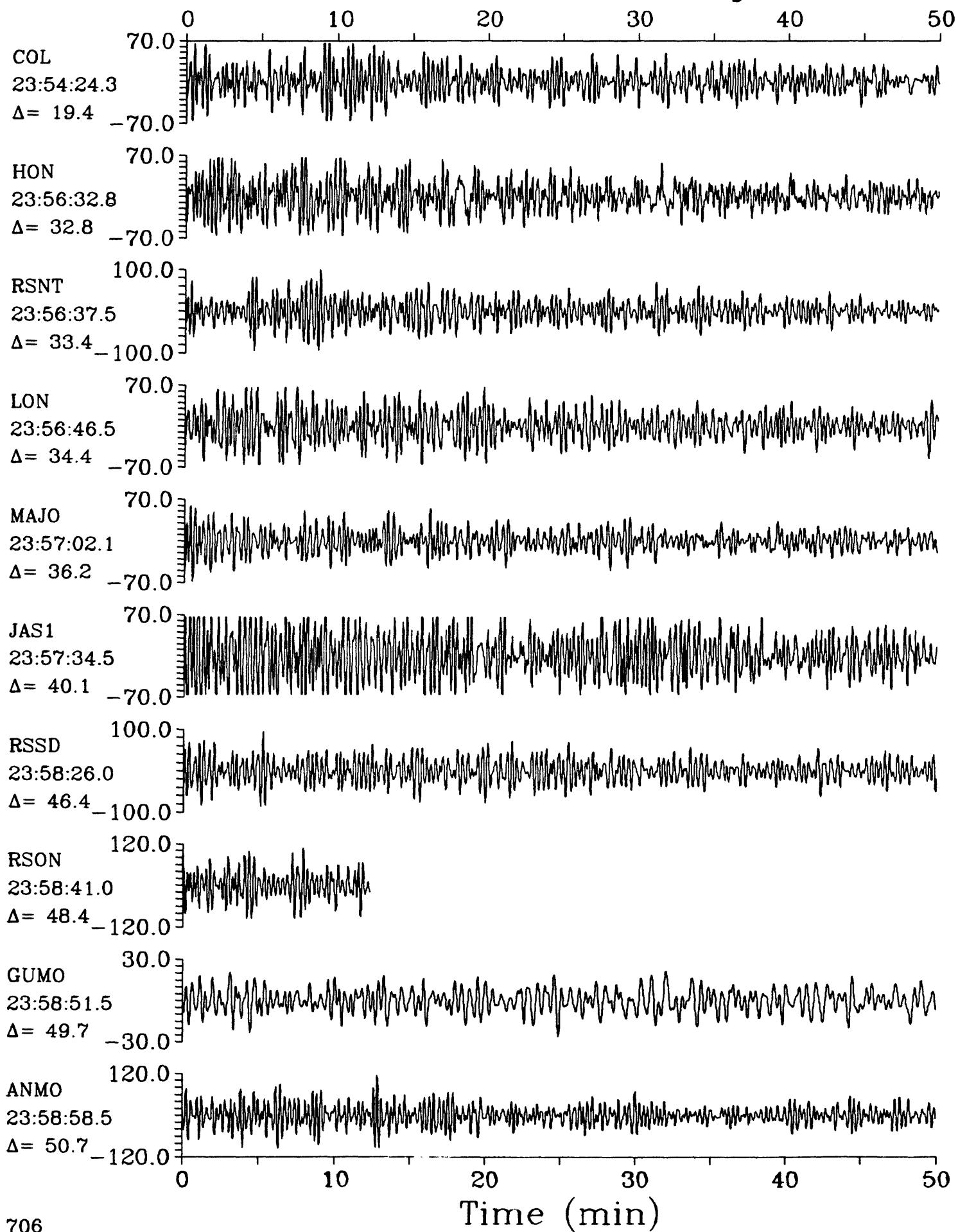
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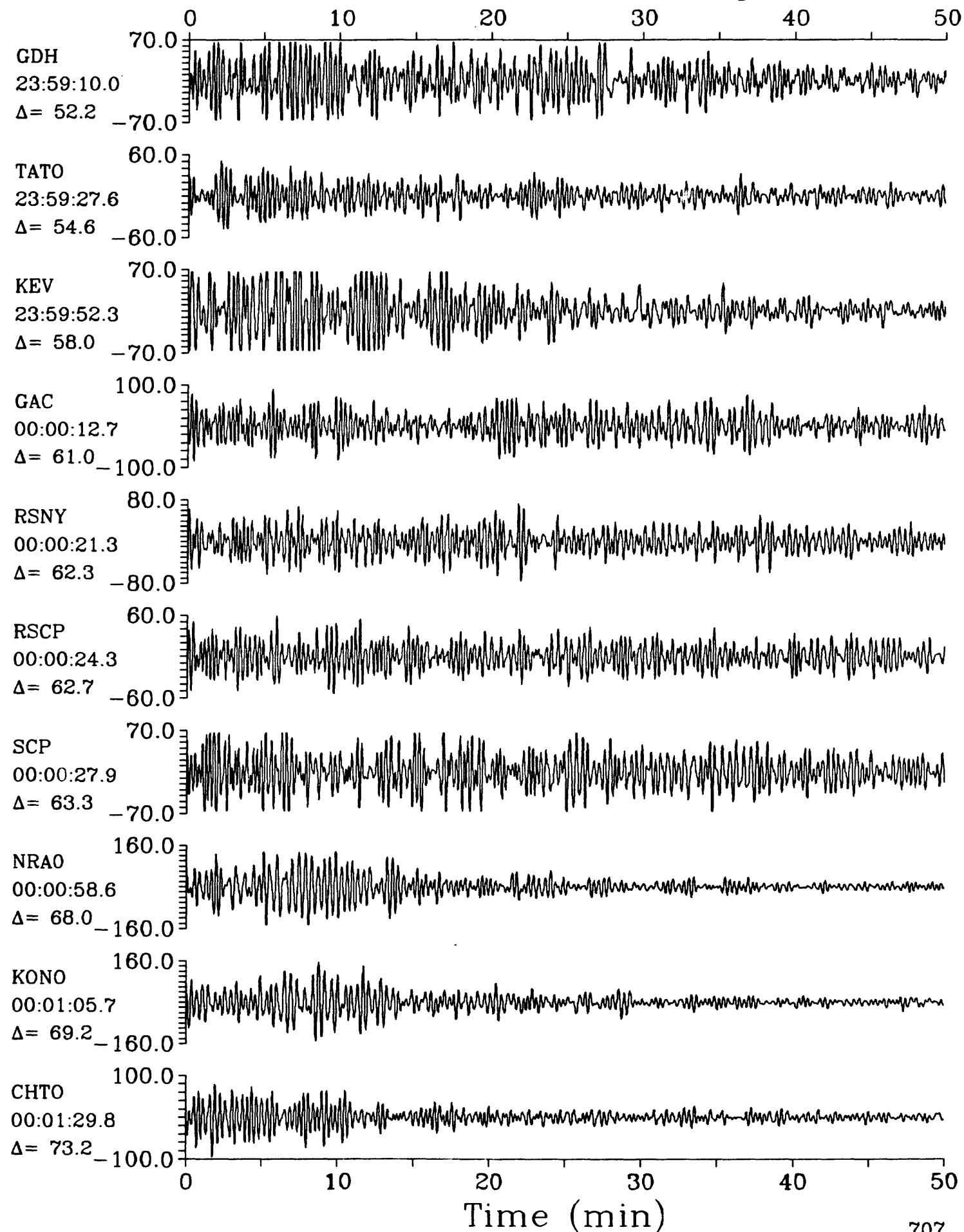
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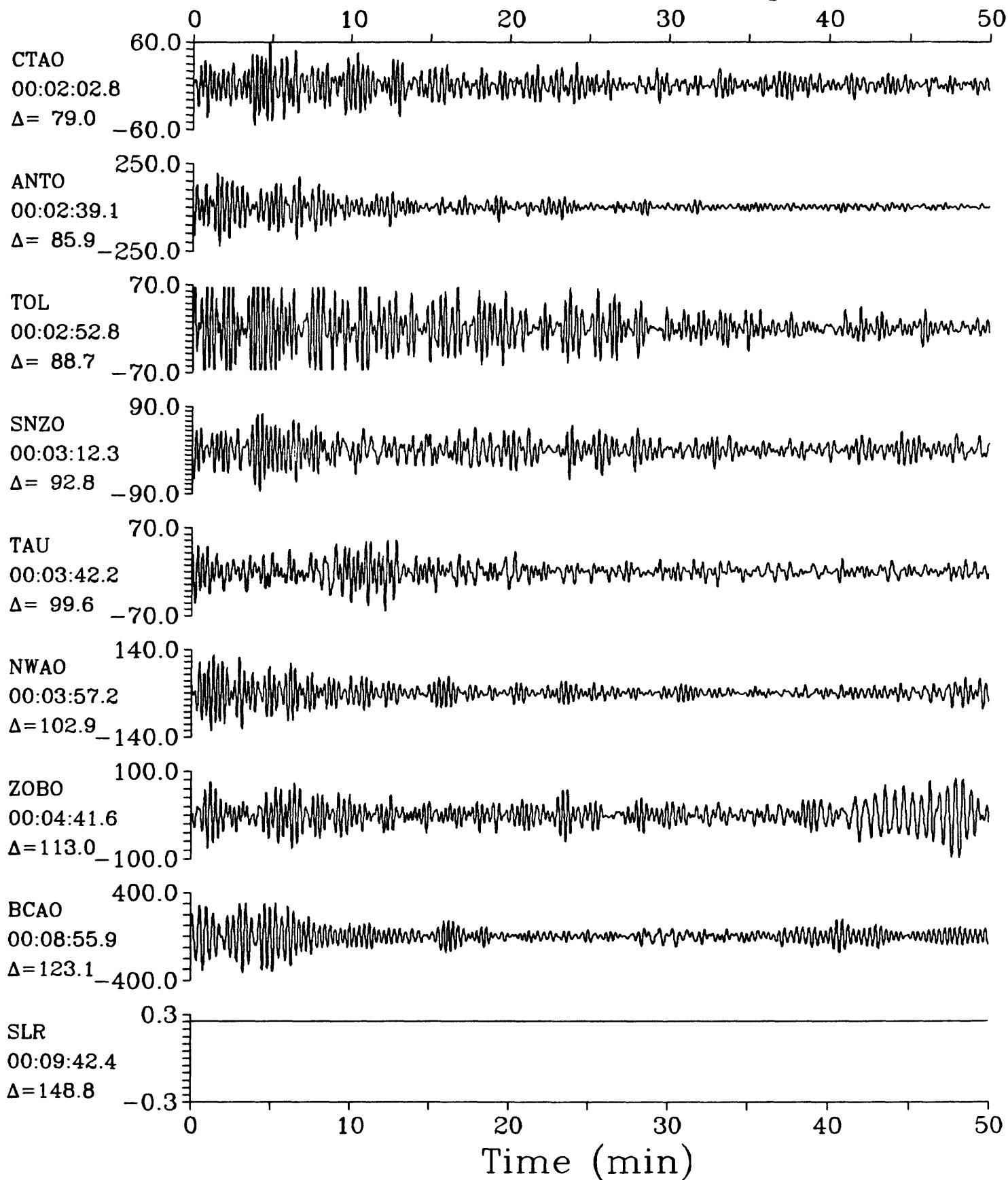
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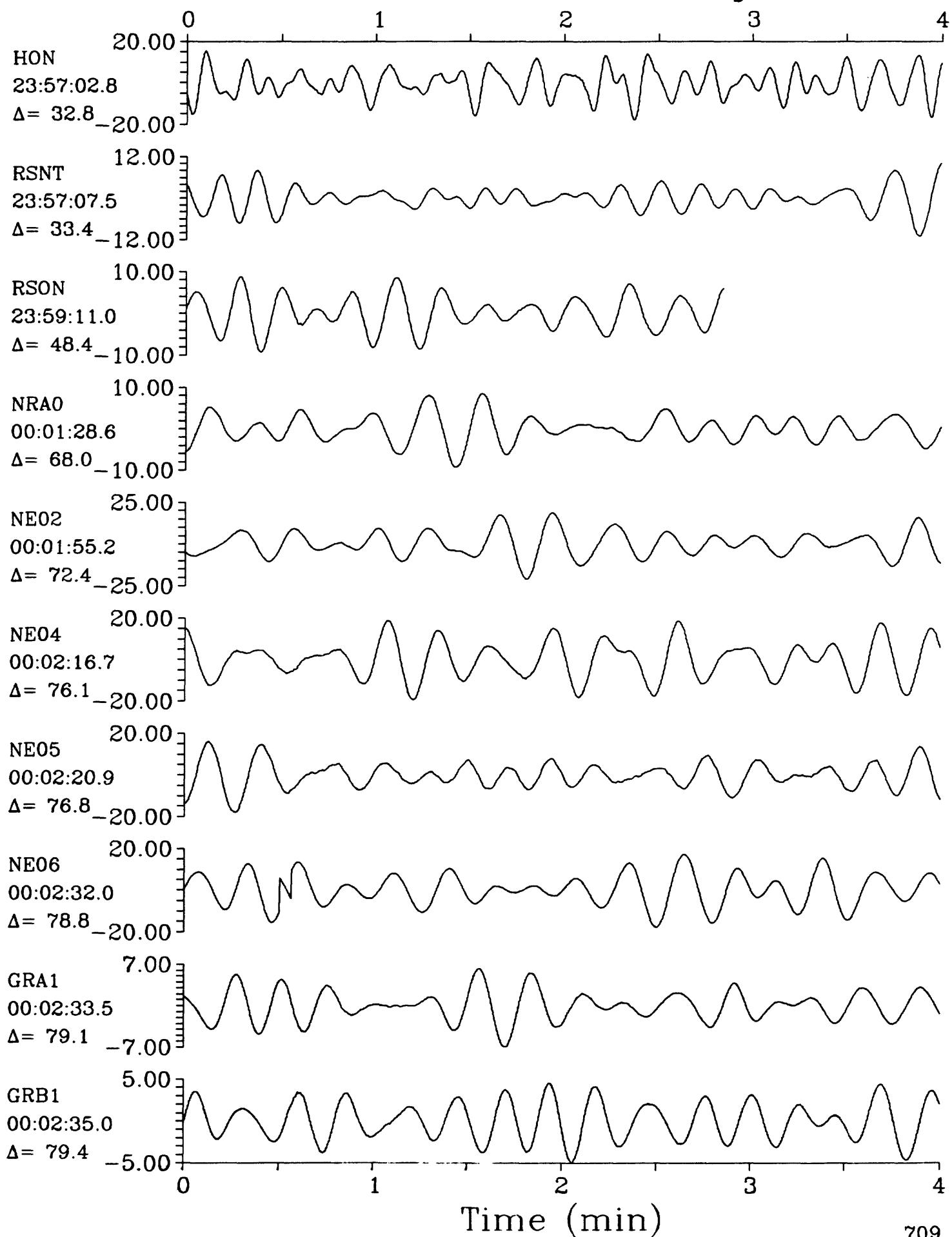
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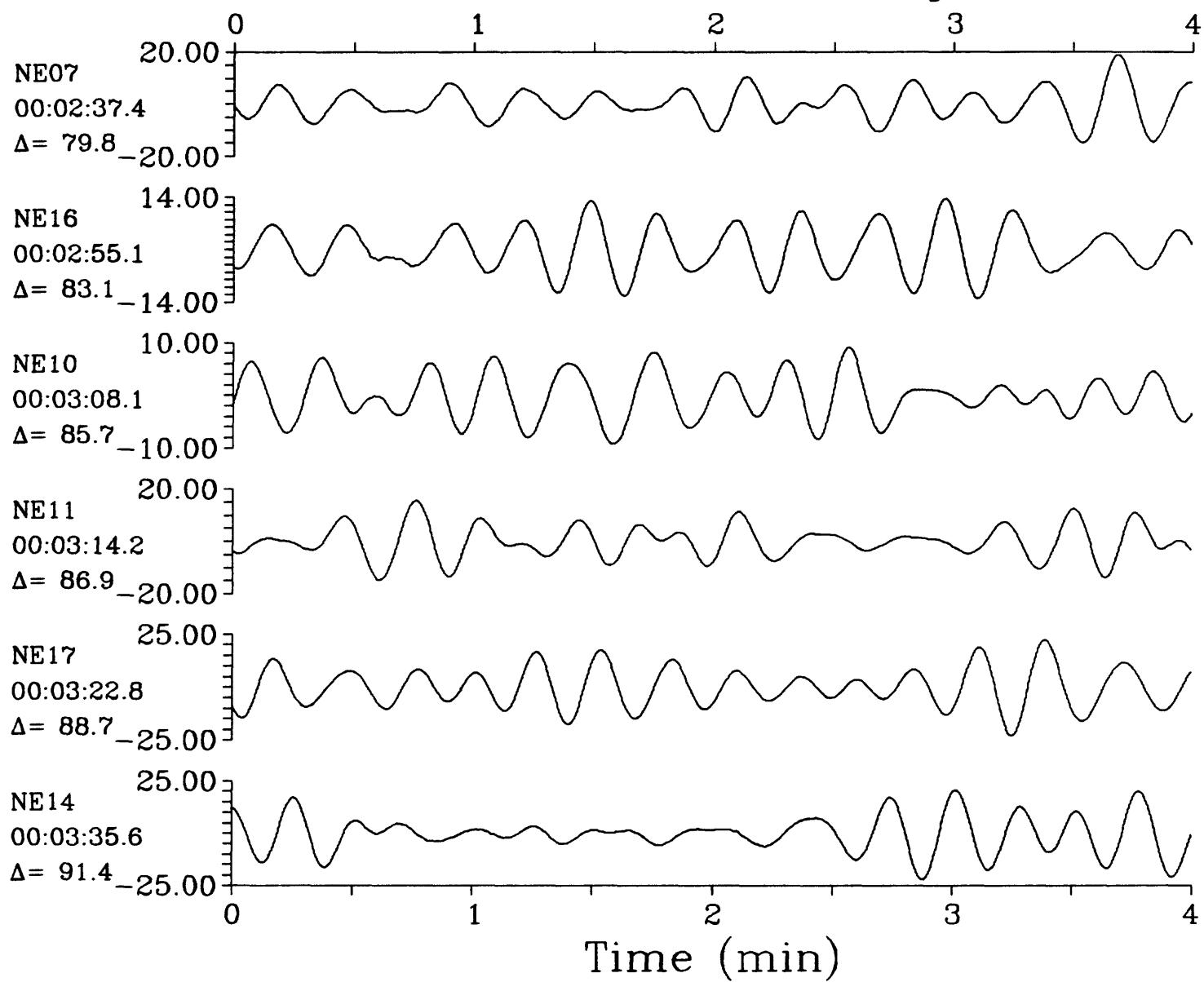
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.8$ 

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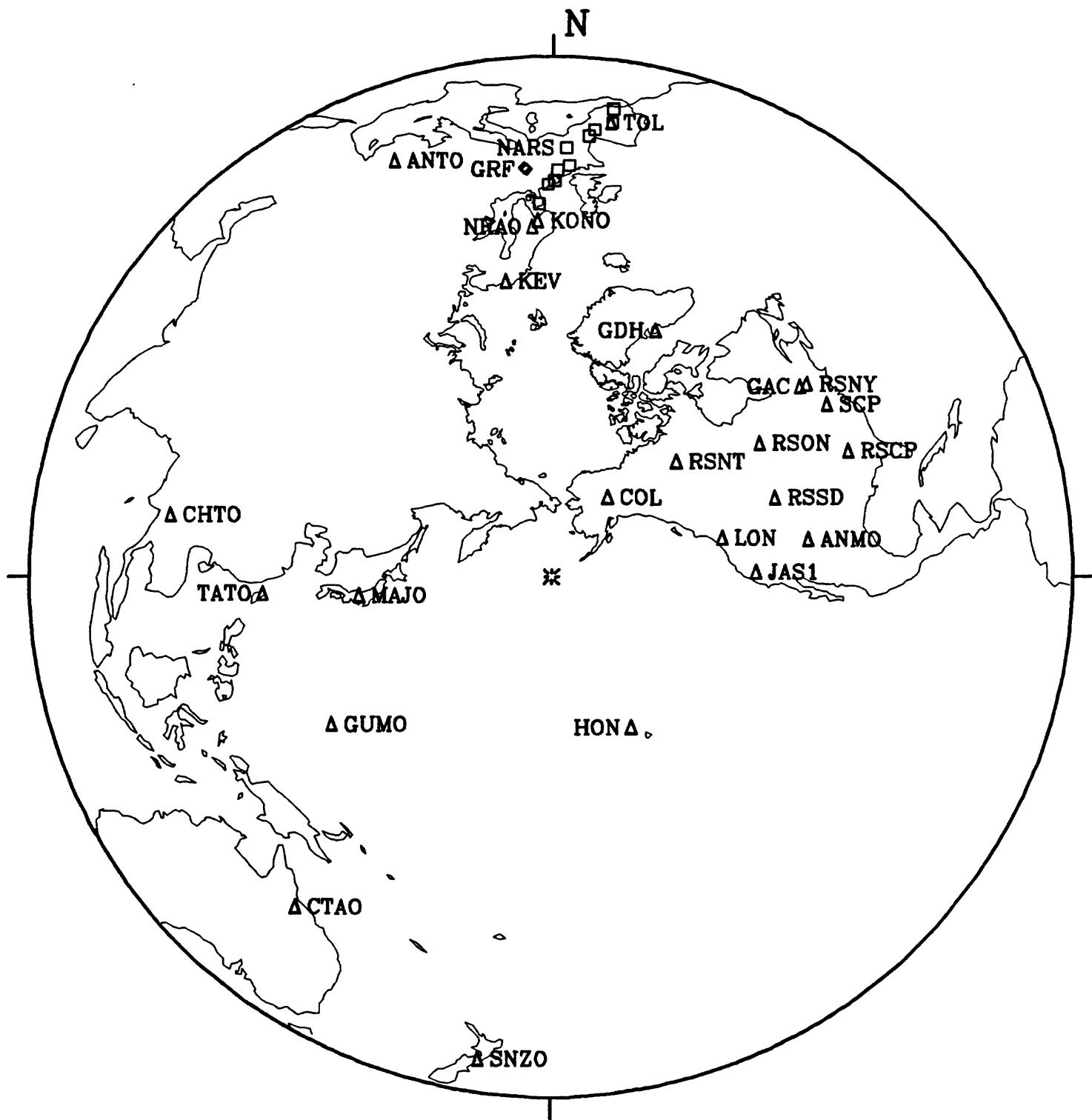
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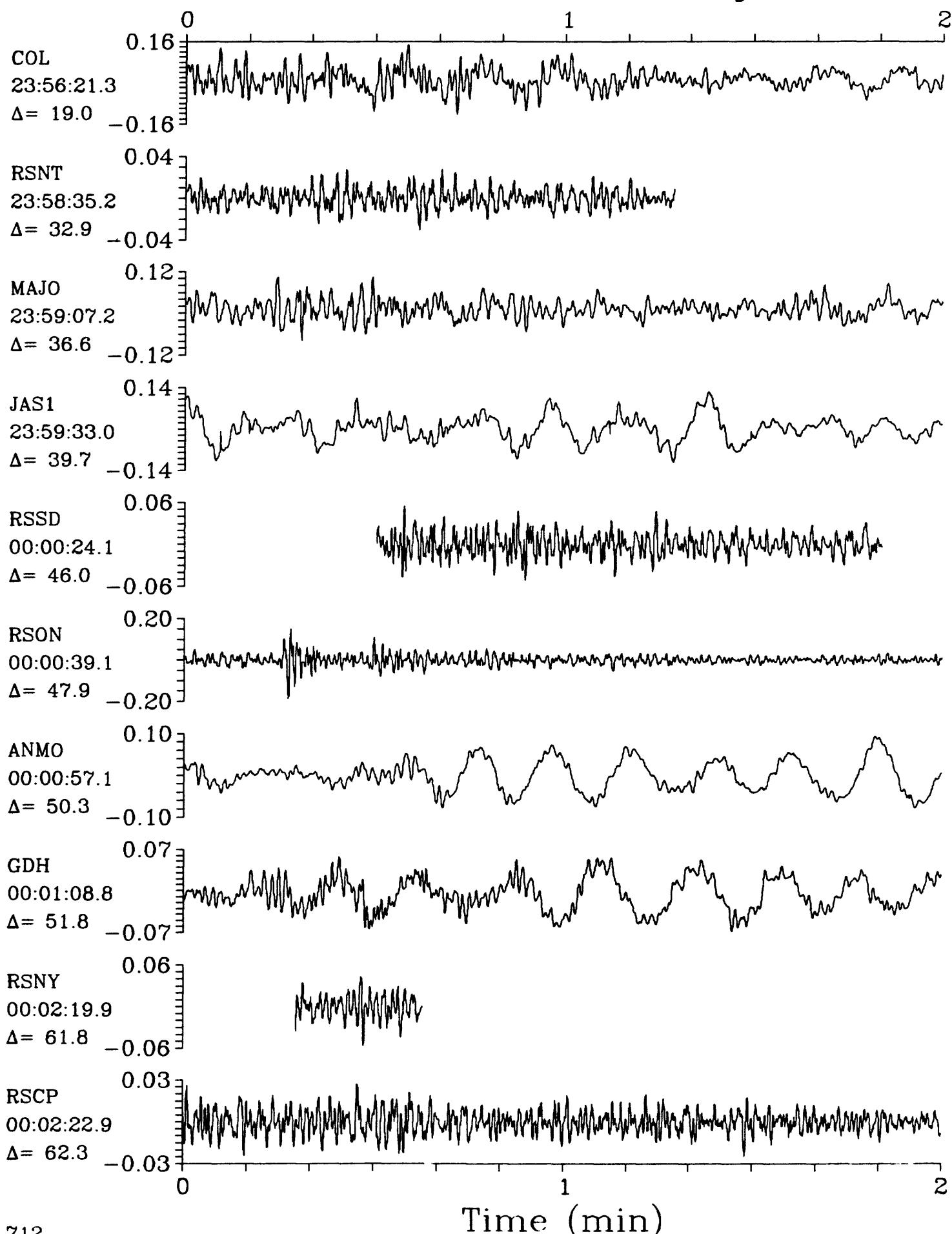
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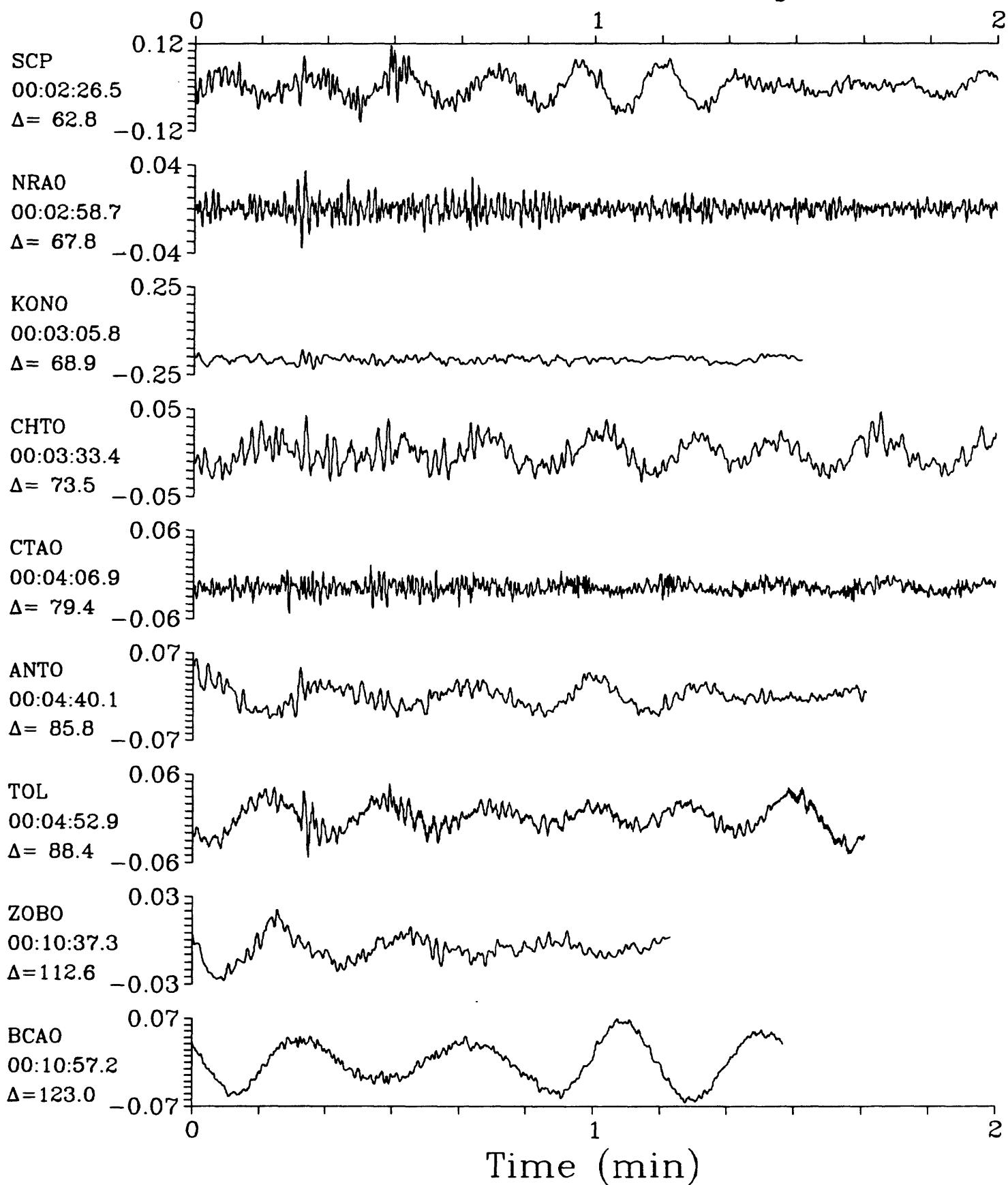
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

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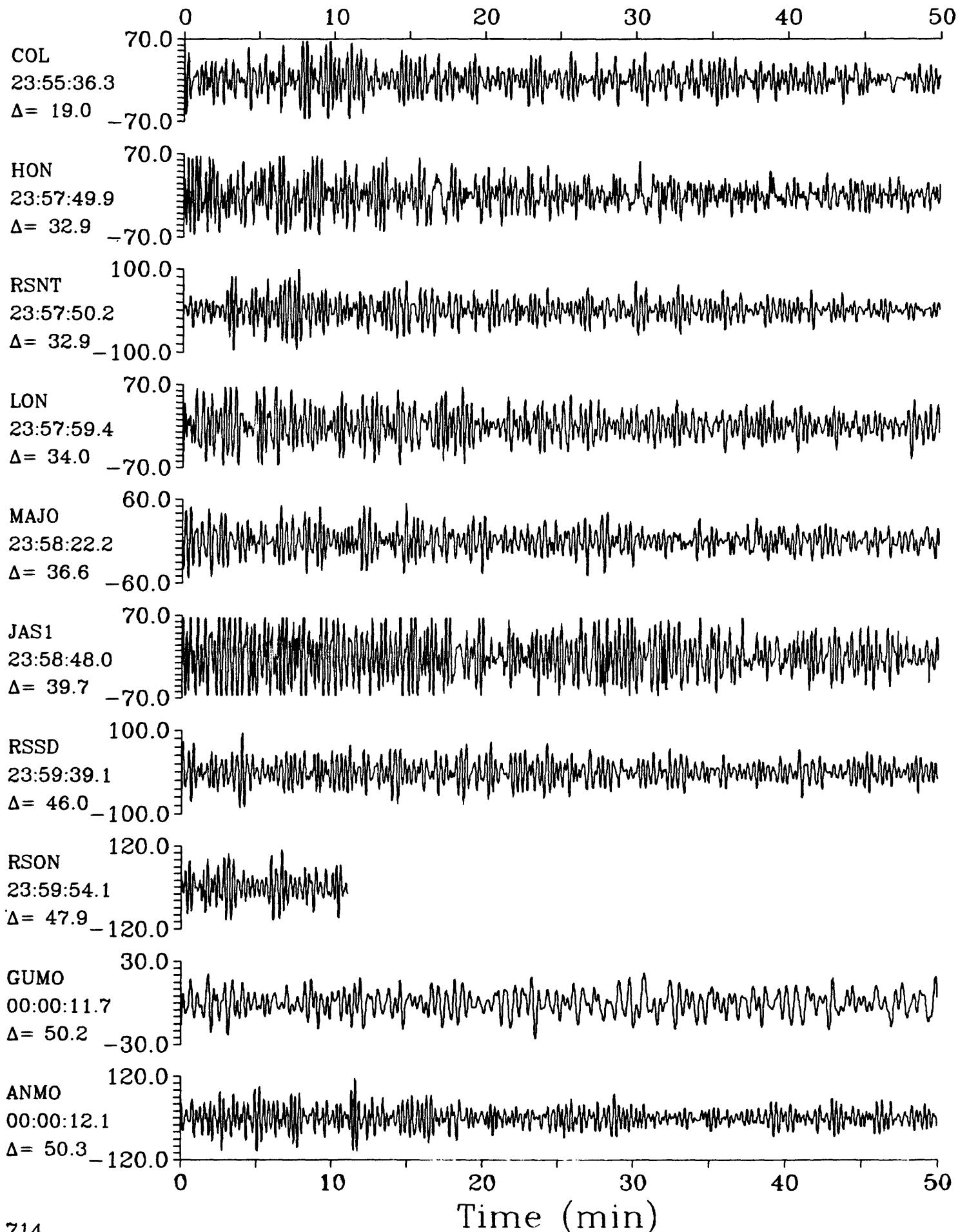
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

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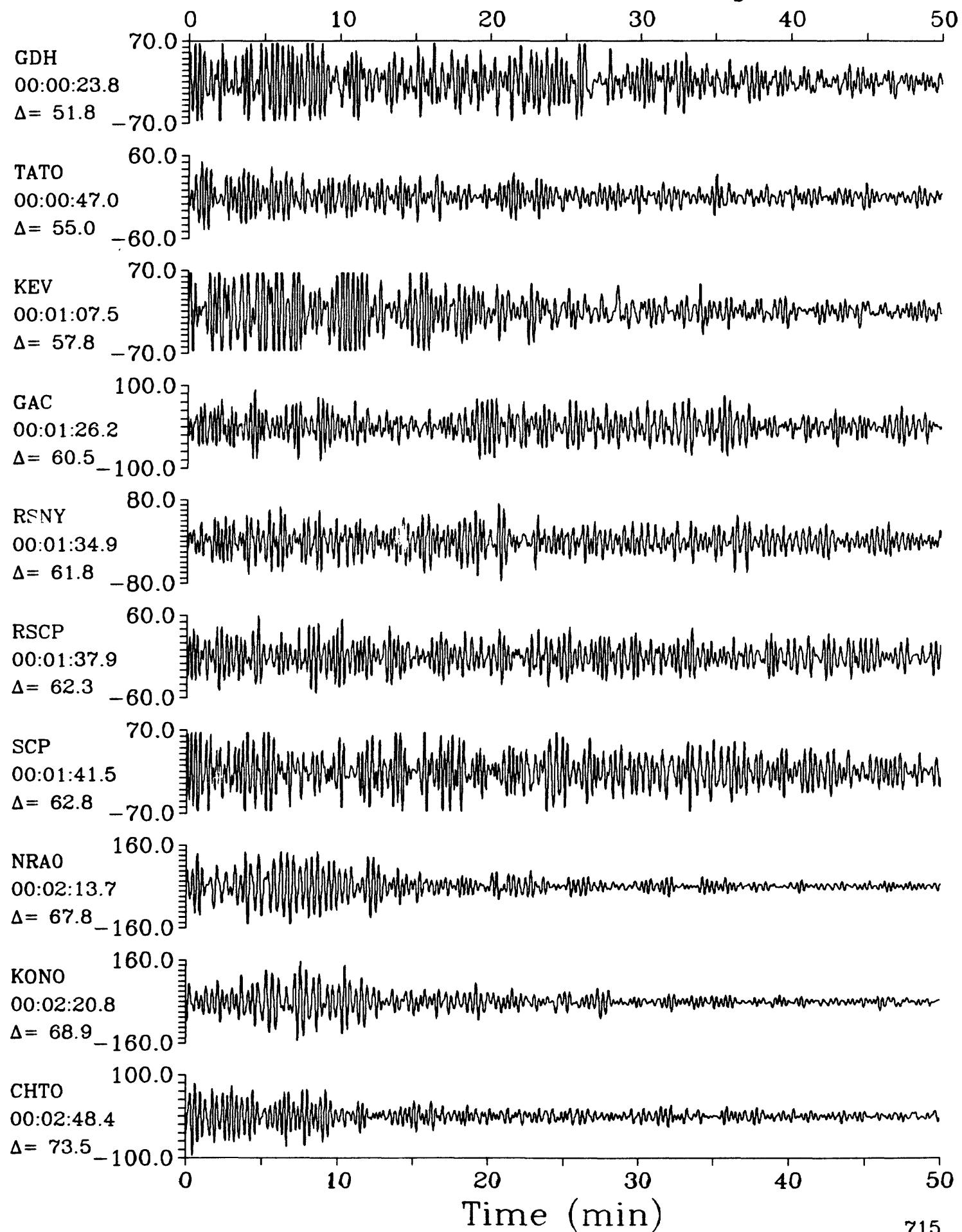
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

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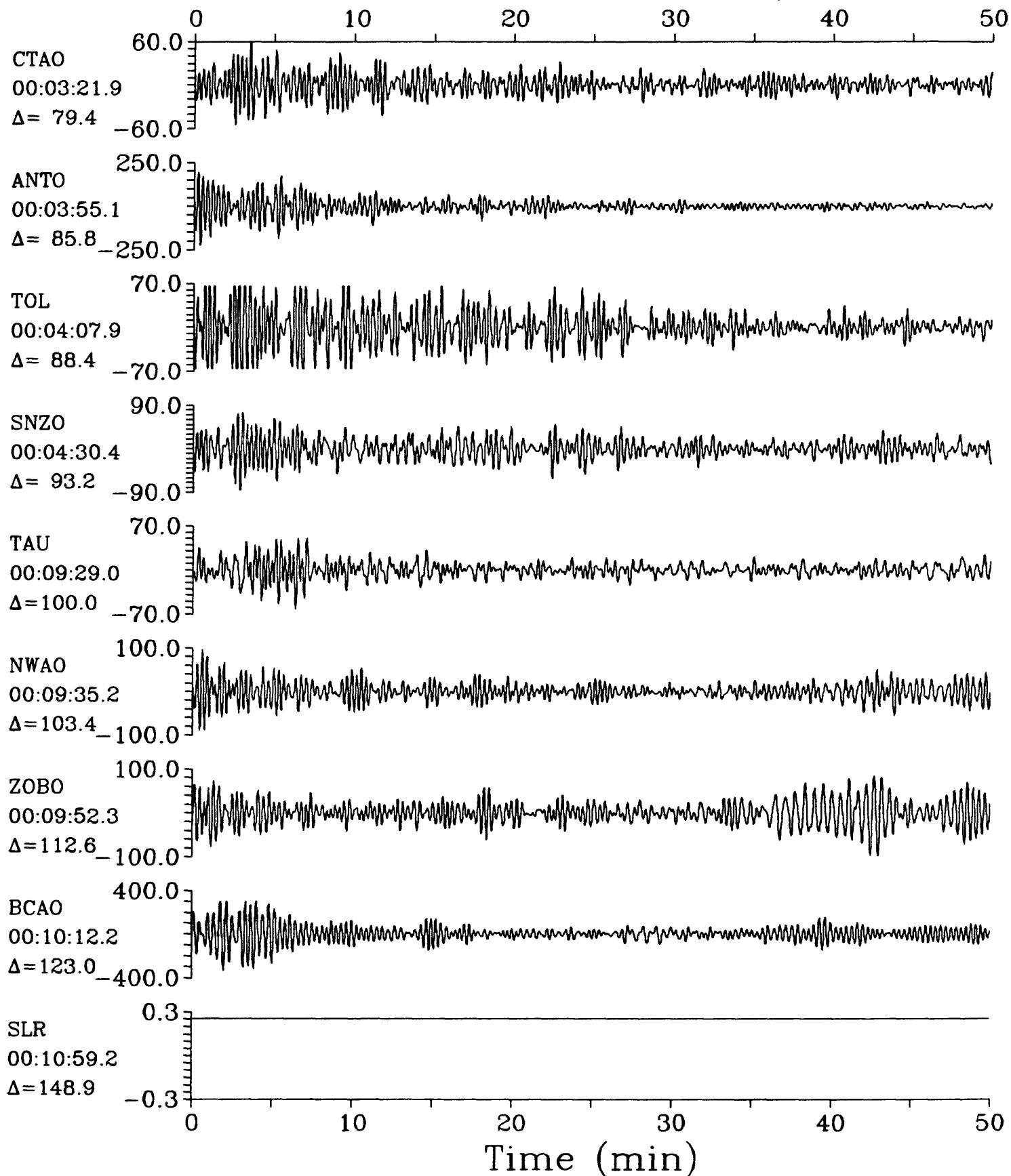
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

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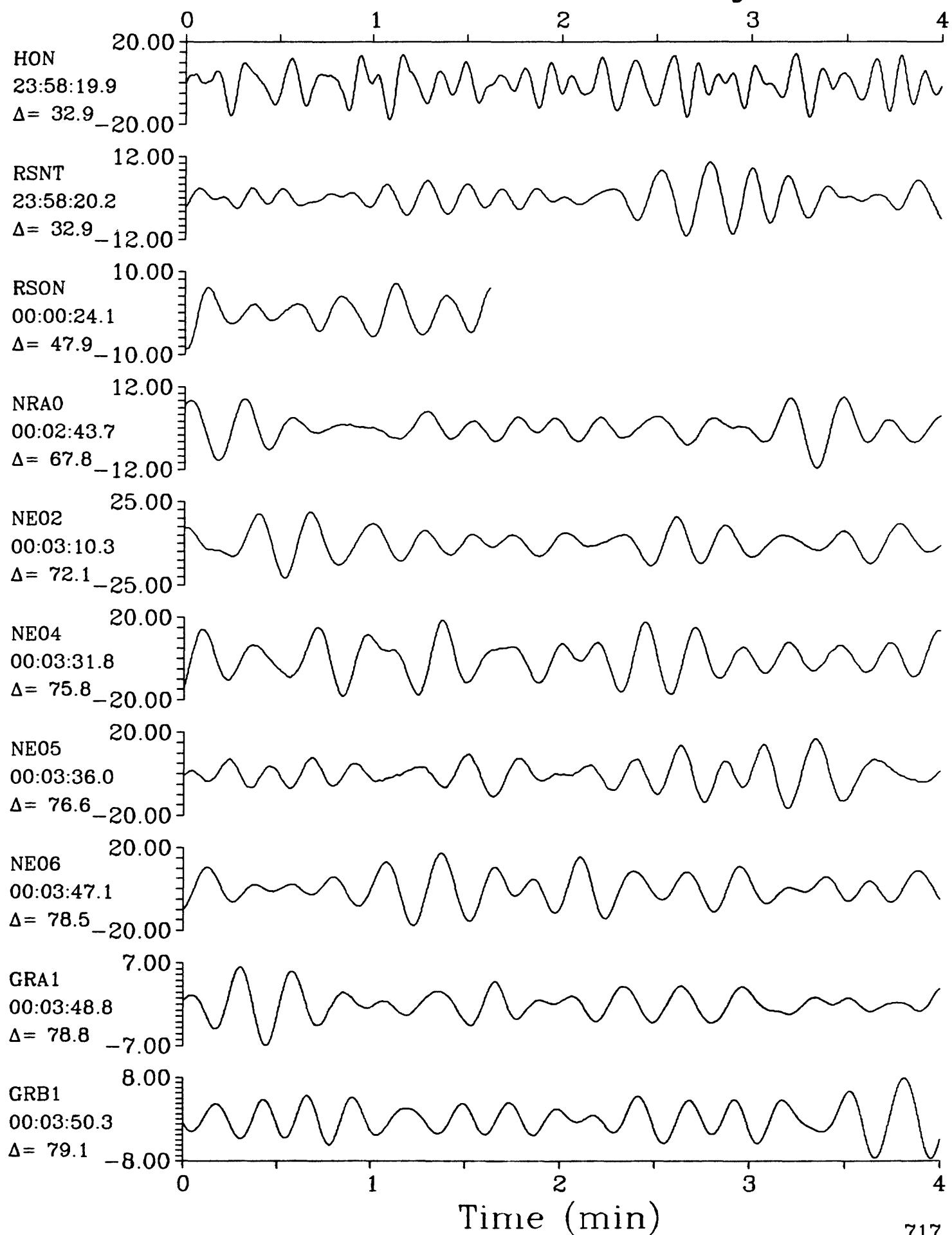
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

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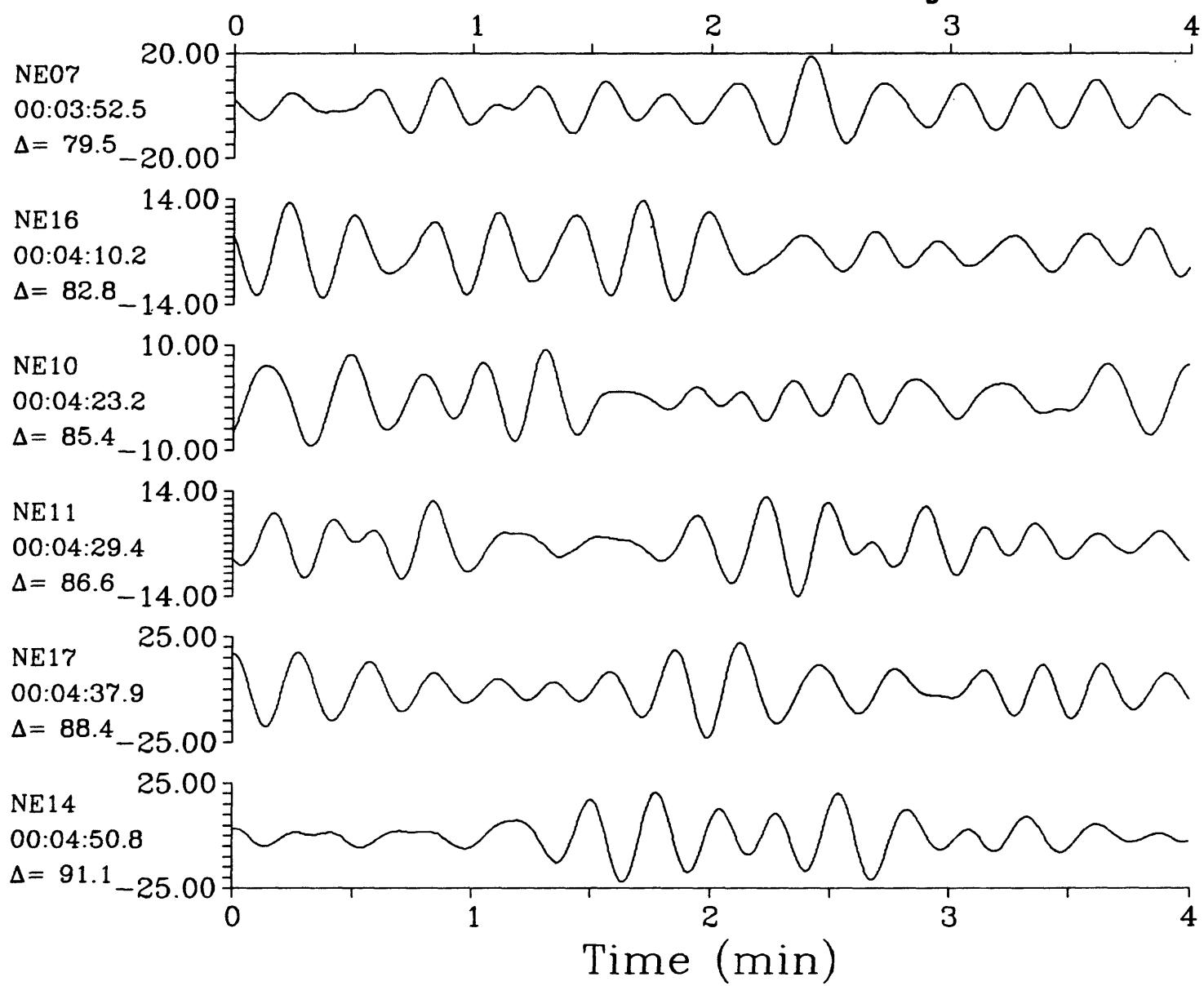
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

IPZ

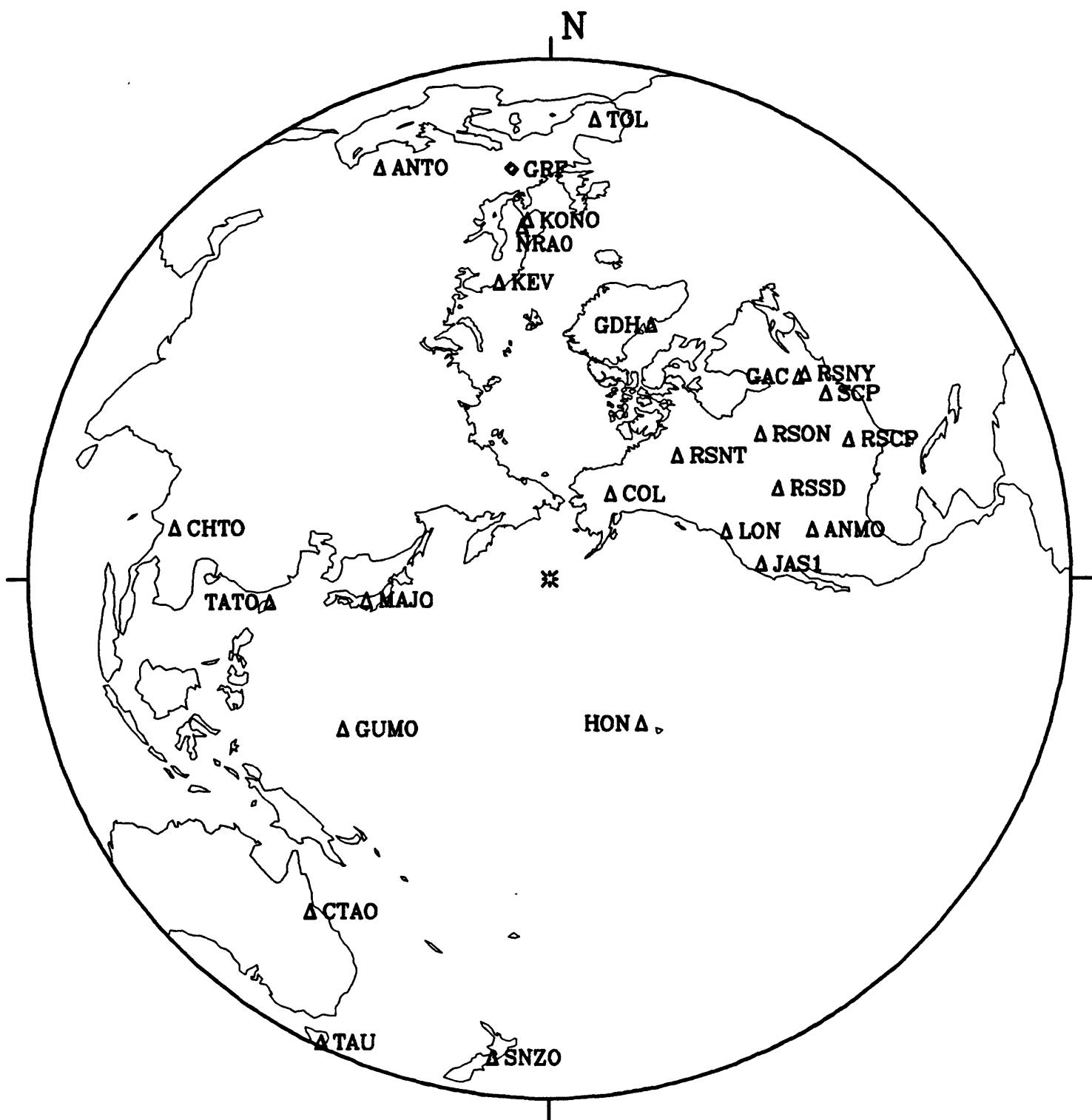
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IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ 

08 May 1986 01:11:02.05

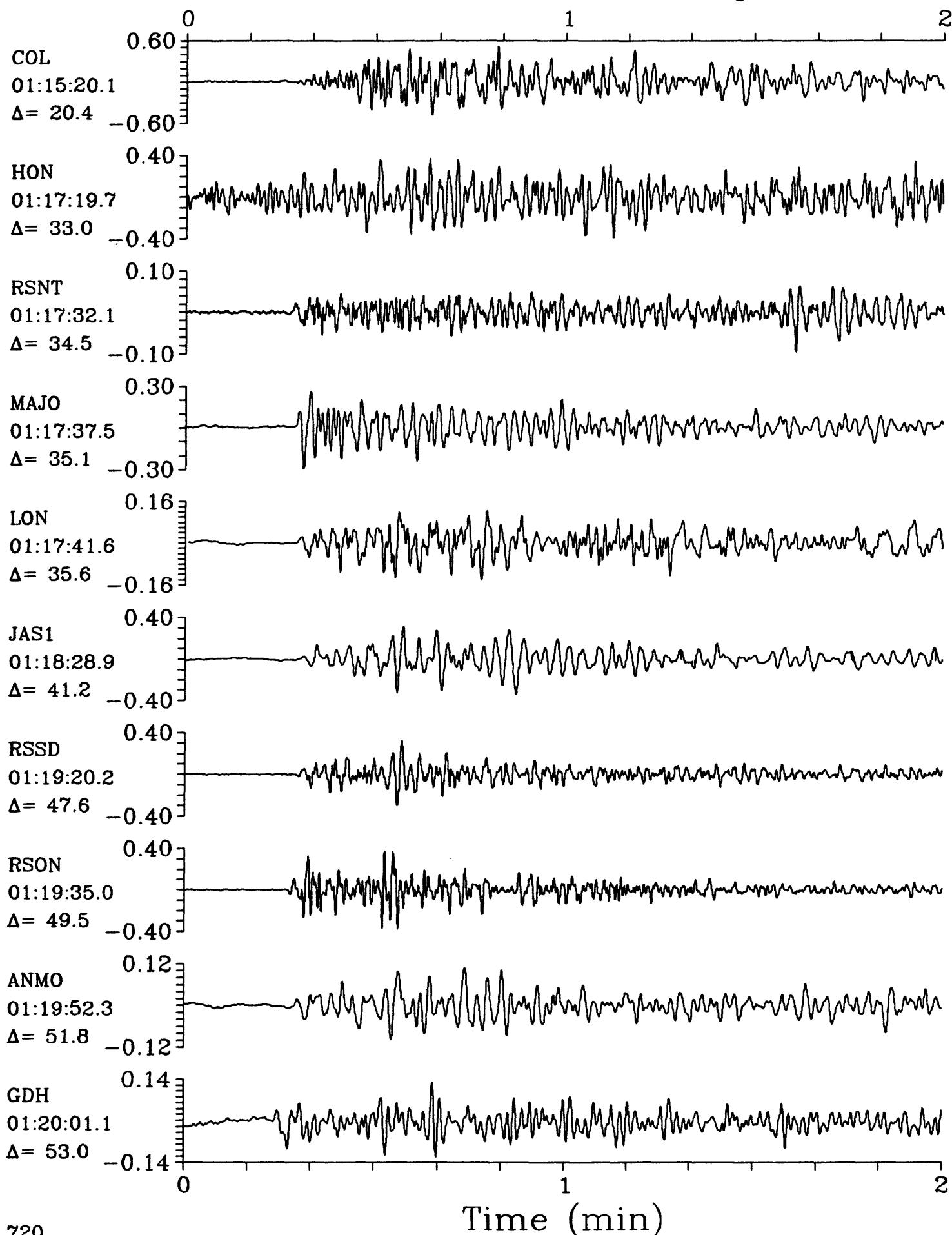
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SPZ

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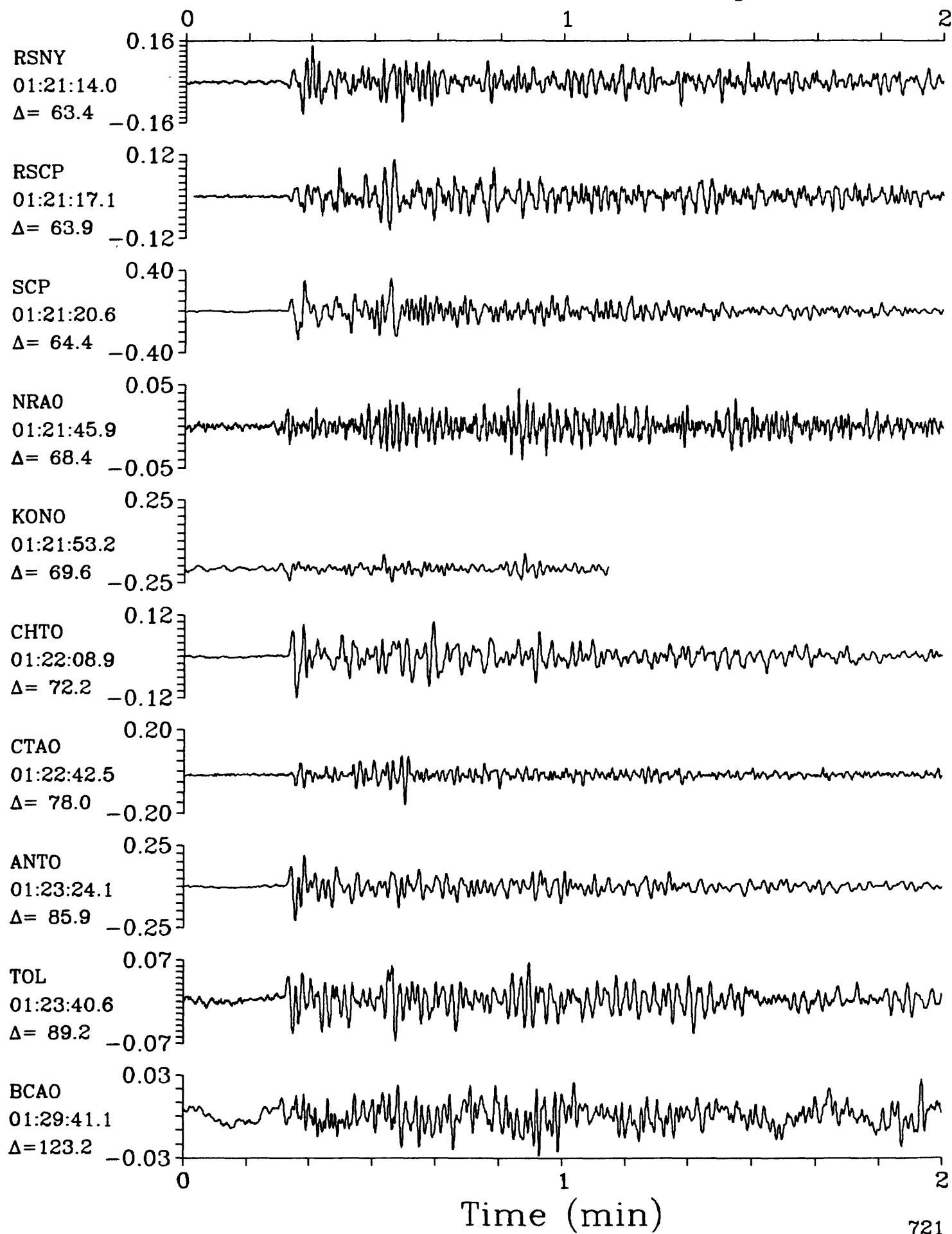
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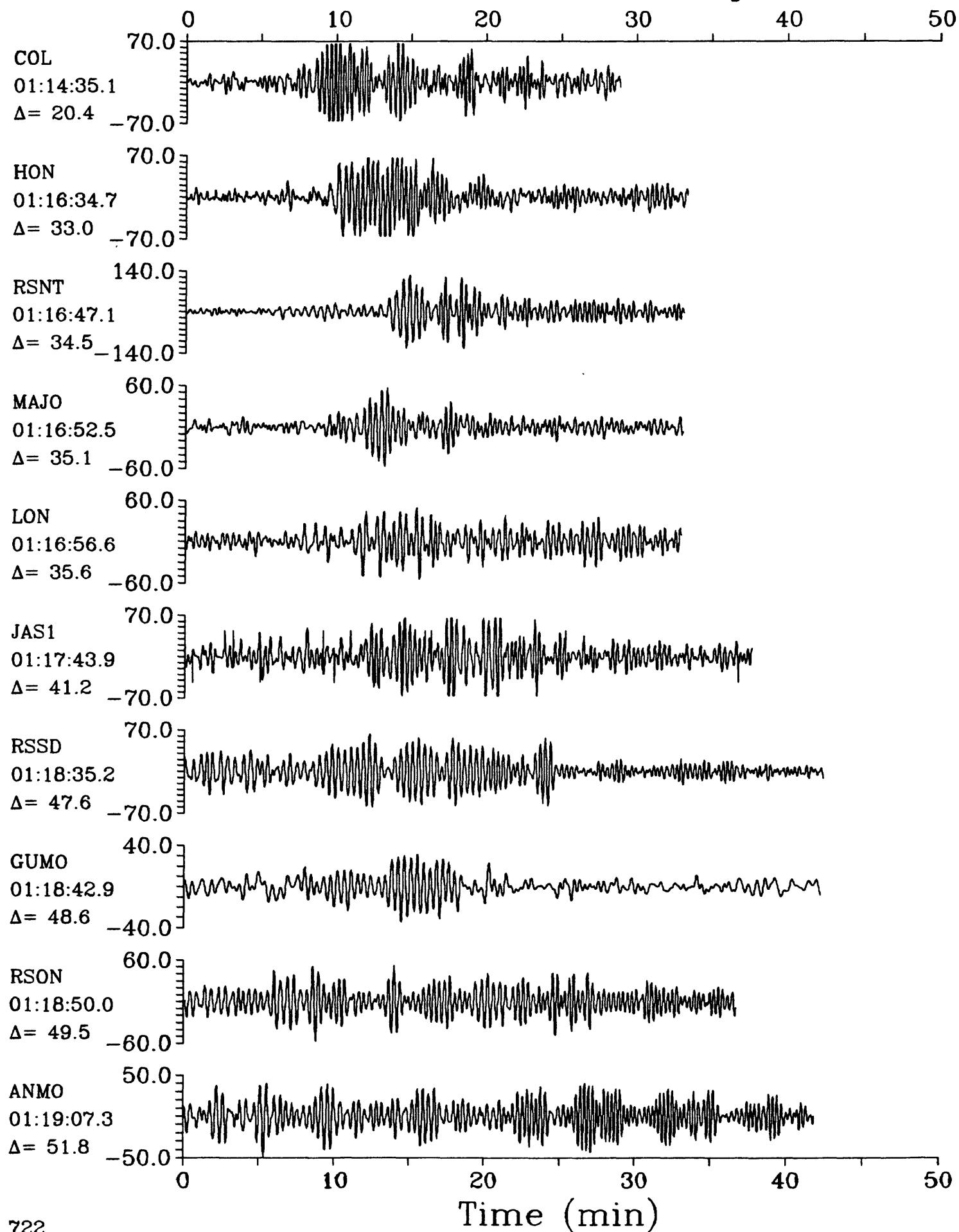
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.9$ 

LPZ

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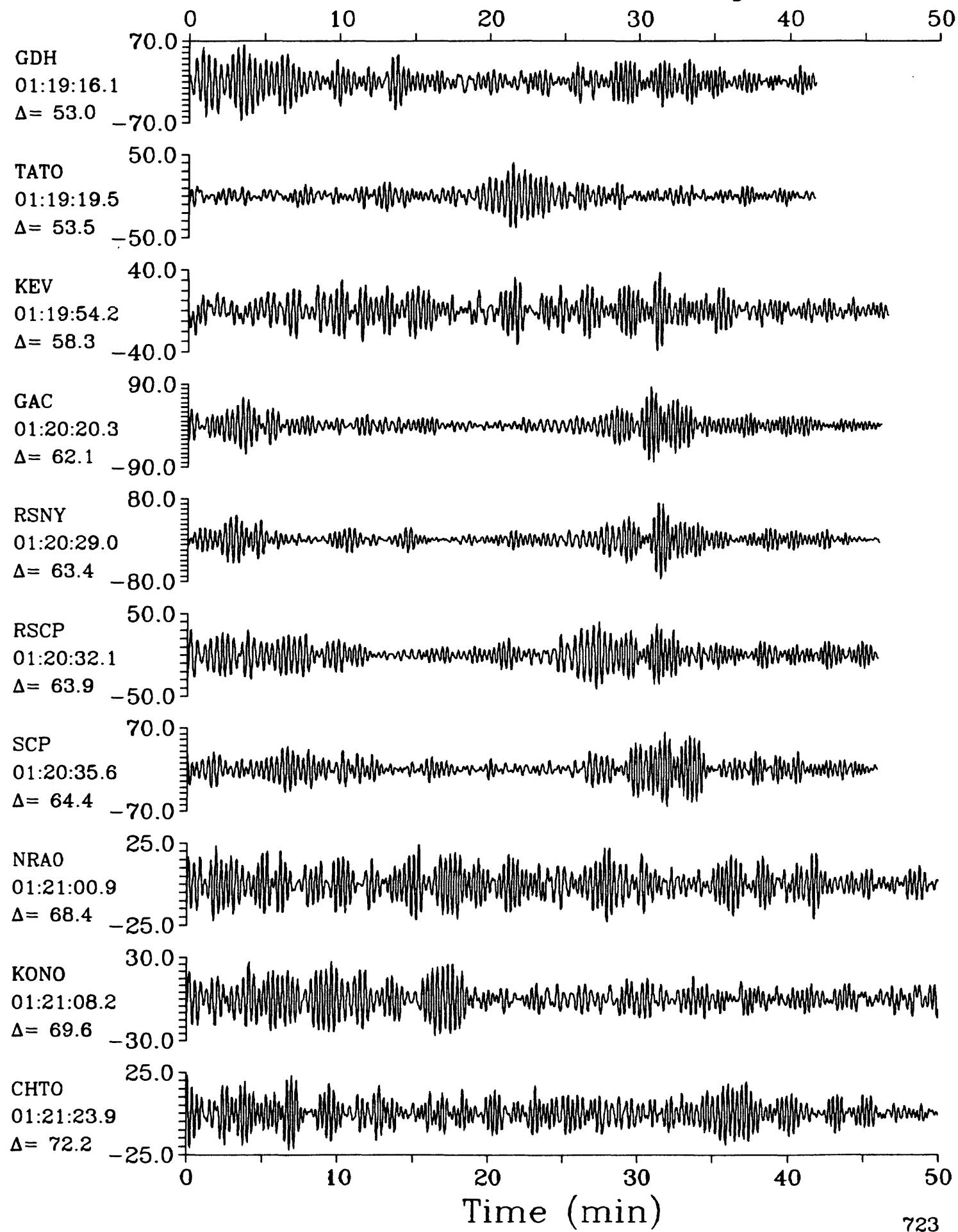
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.9$ 

LPZ

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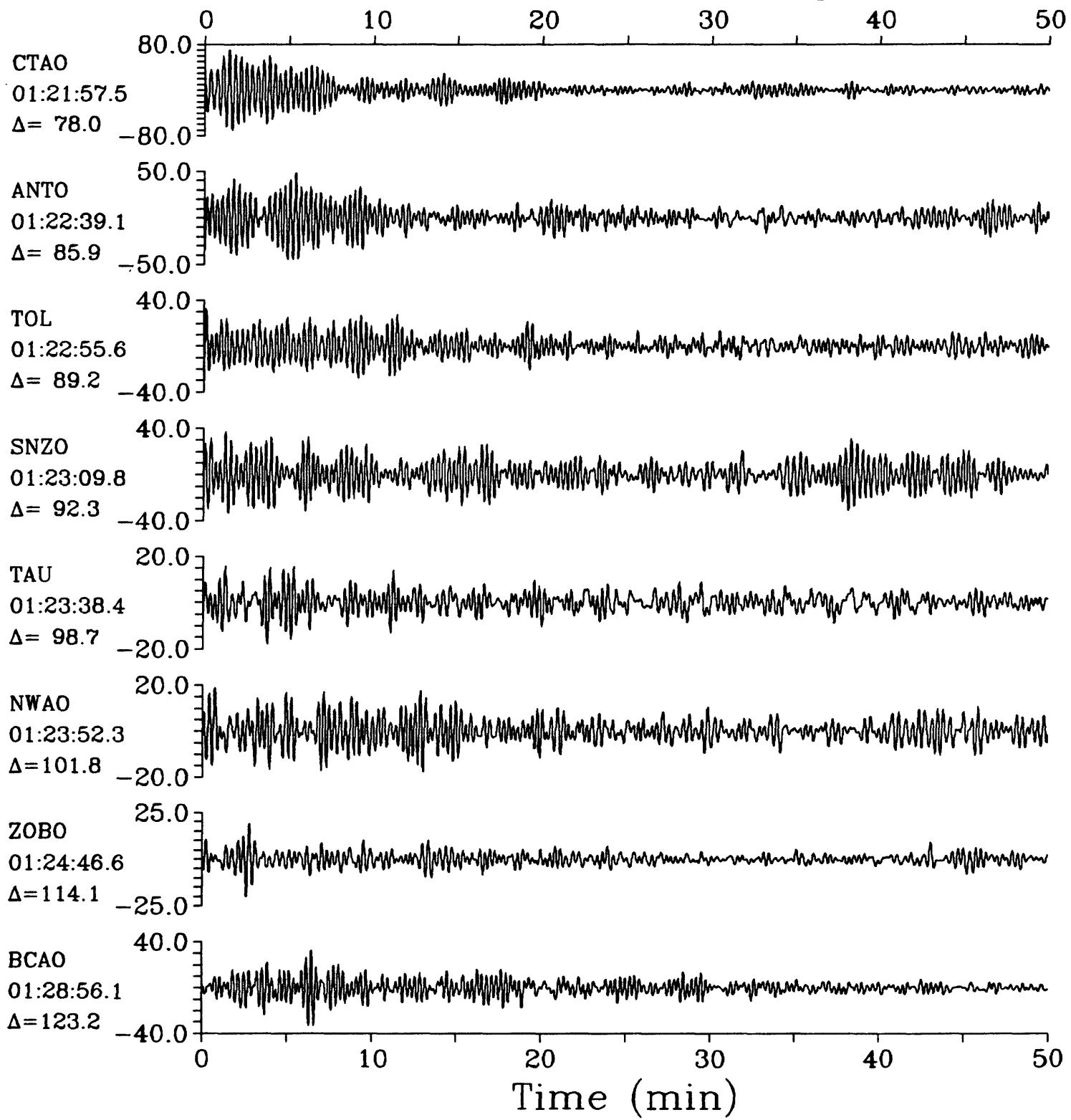
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Andreanof Islands, Aleutian Is. h=33.0 m_b=5.9

LPZ

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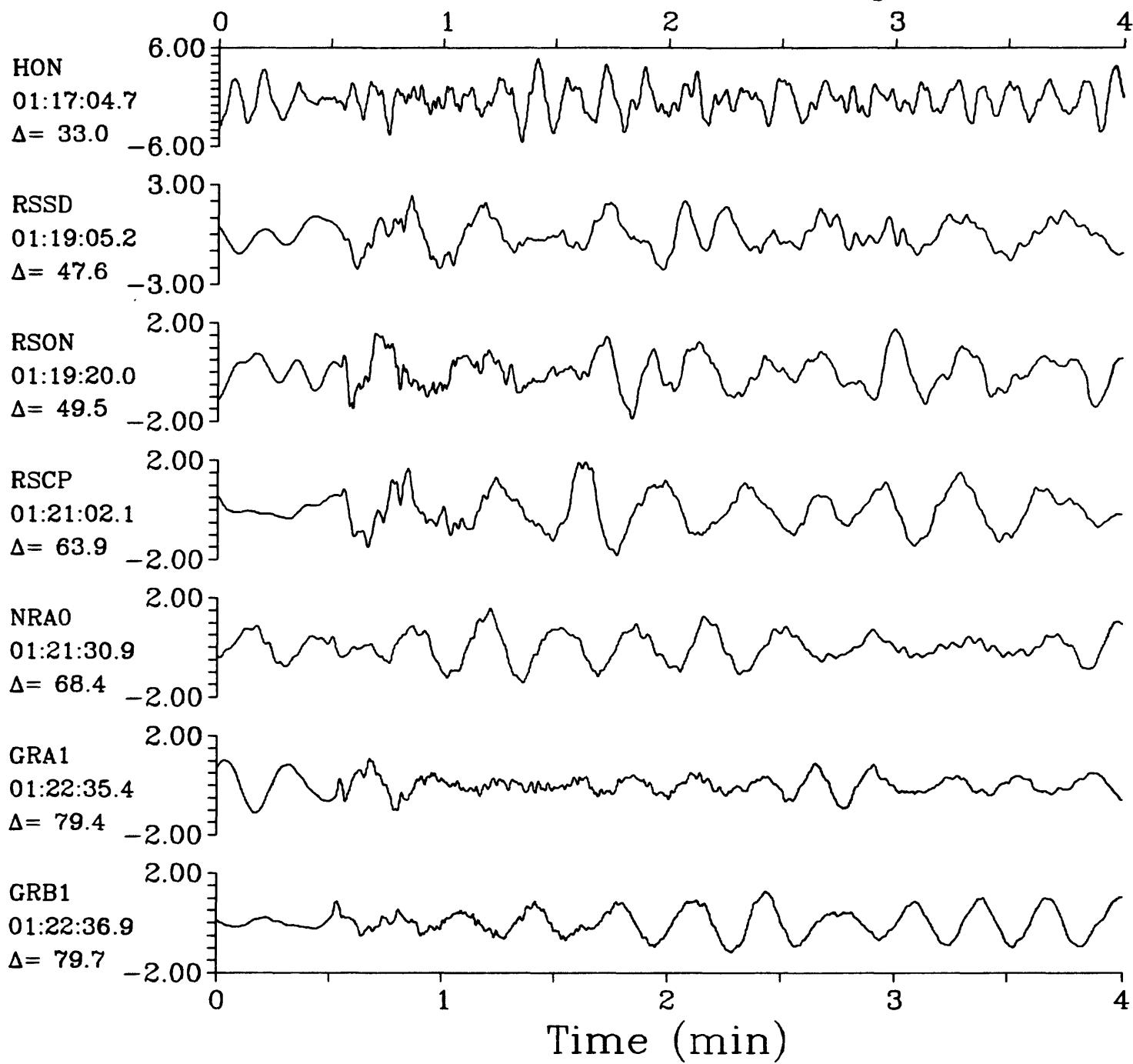
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.9$ 

IPZ

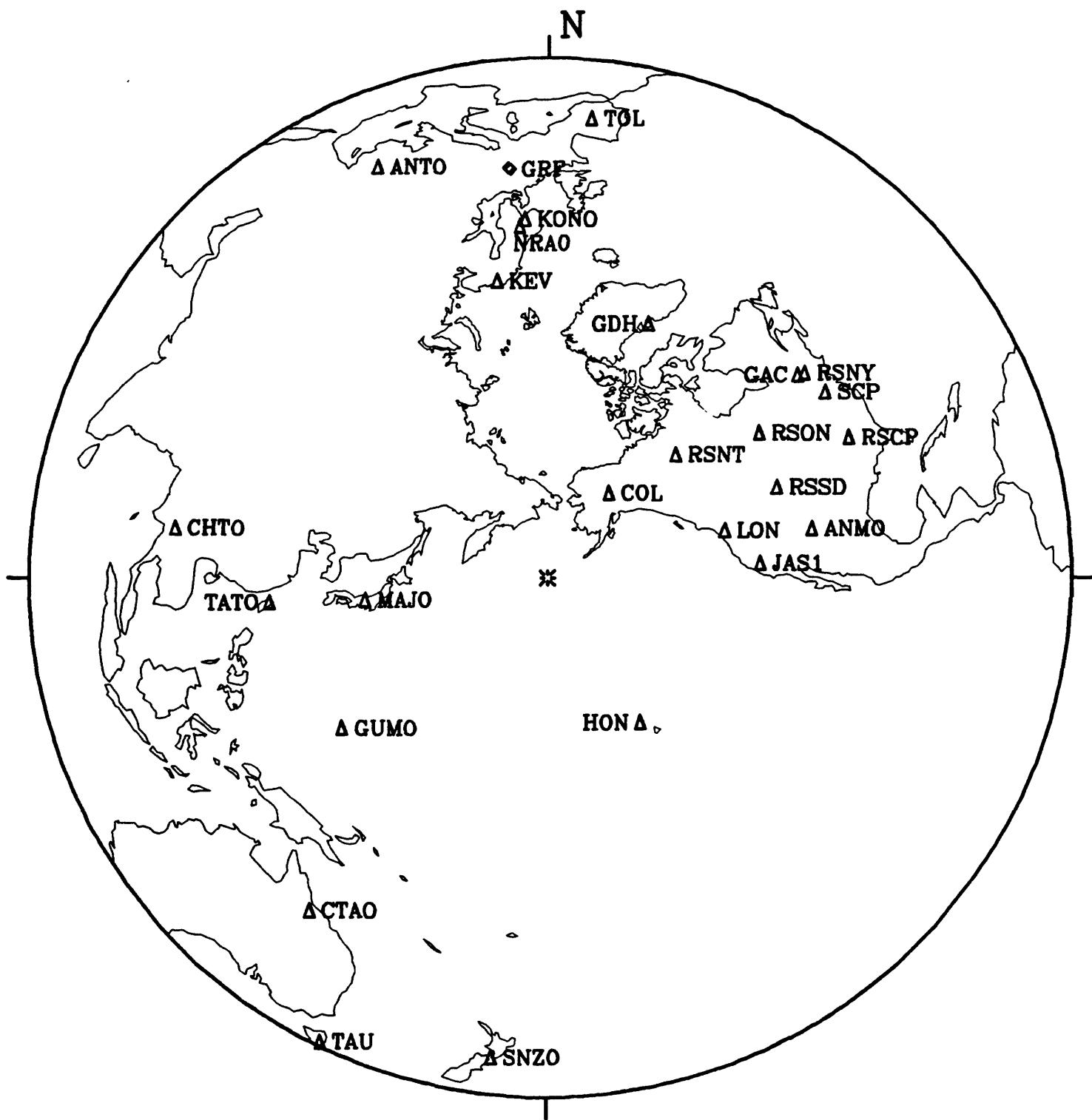
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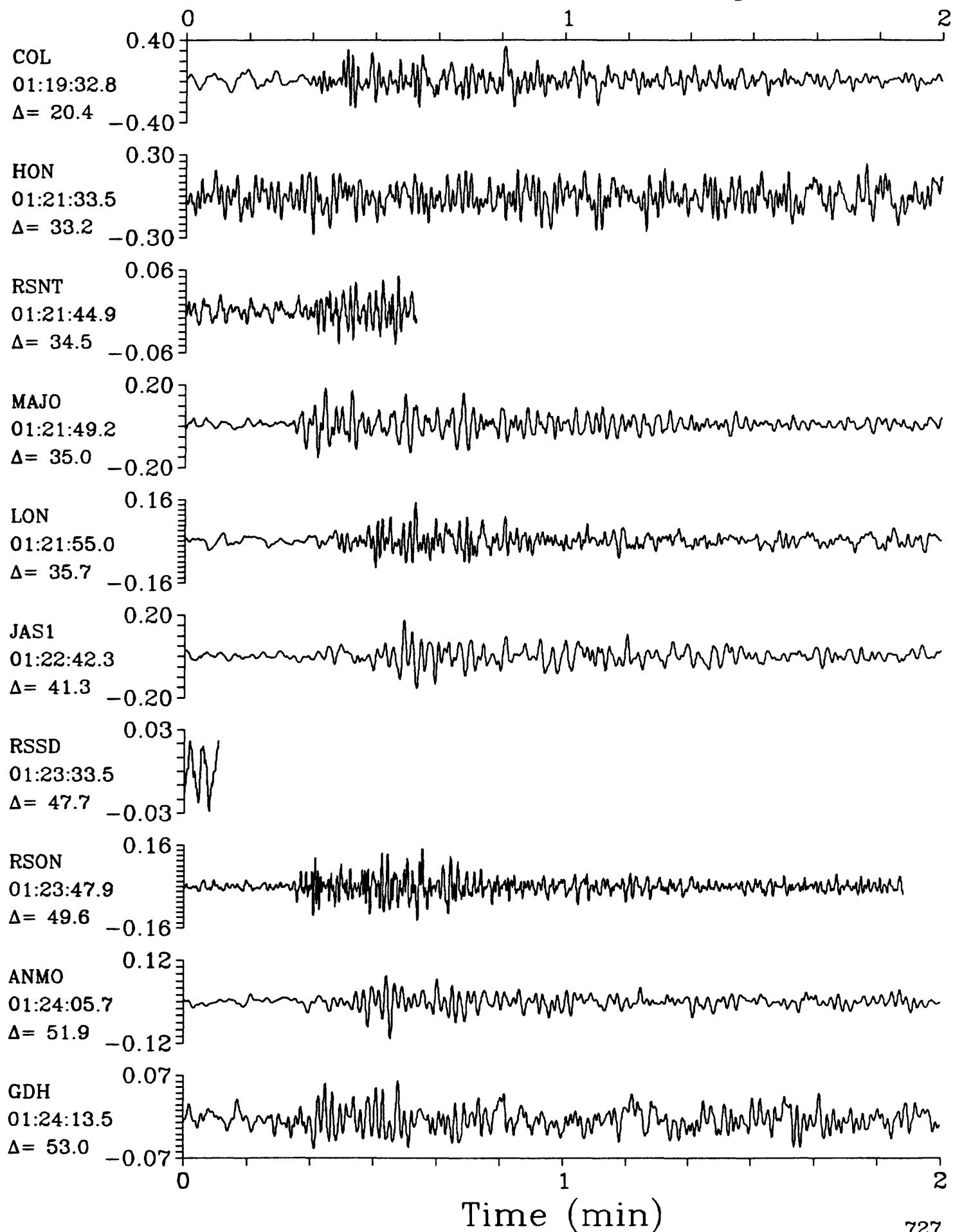
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SPZ

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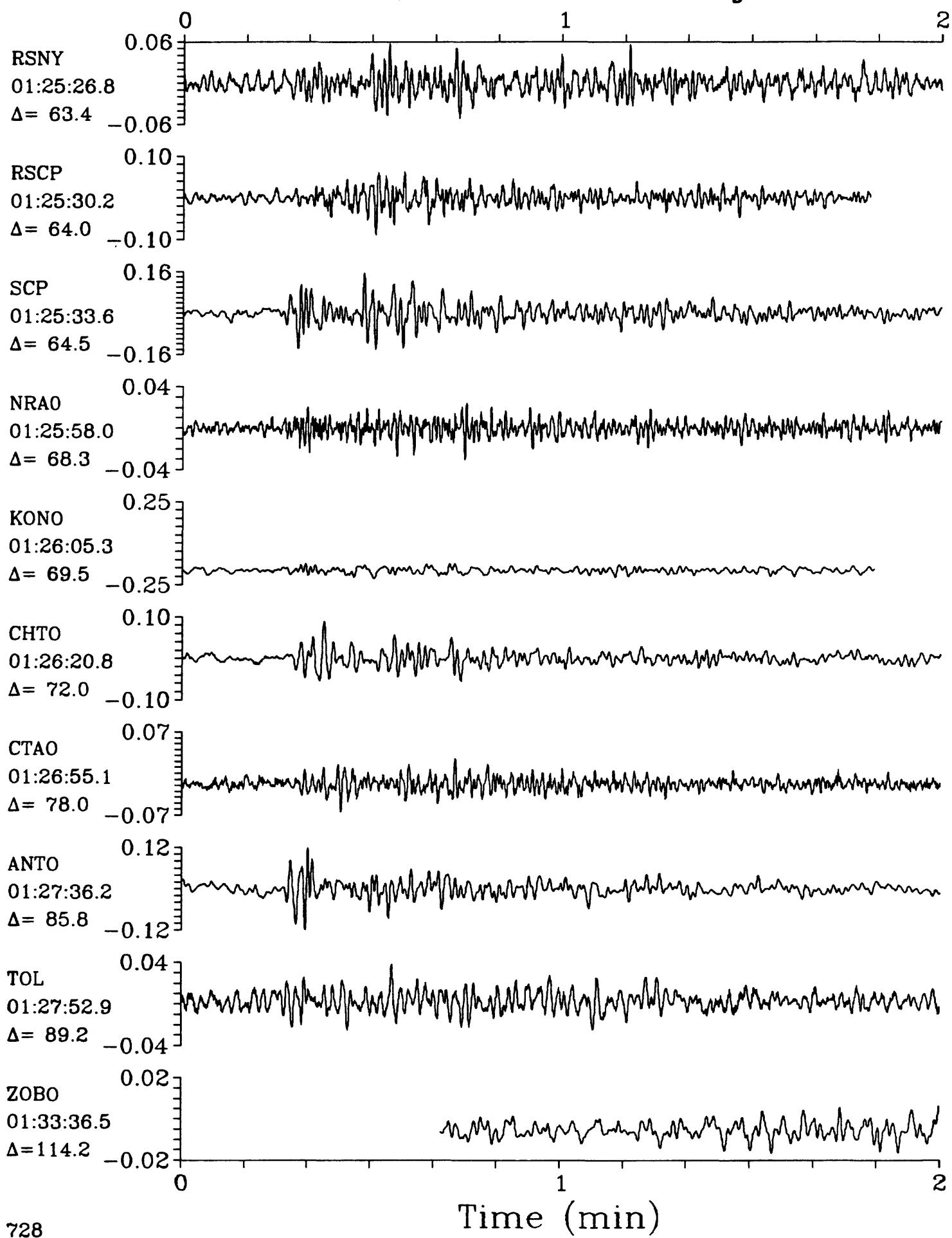
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

SPZ

08 May 1986 01:15:14.68

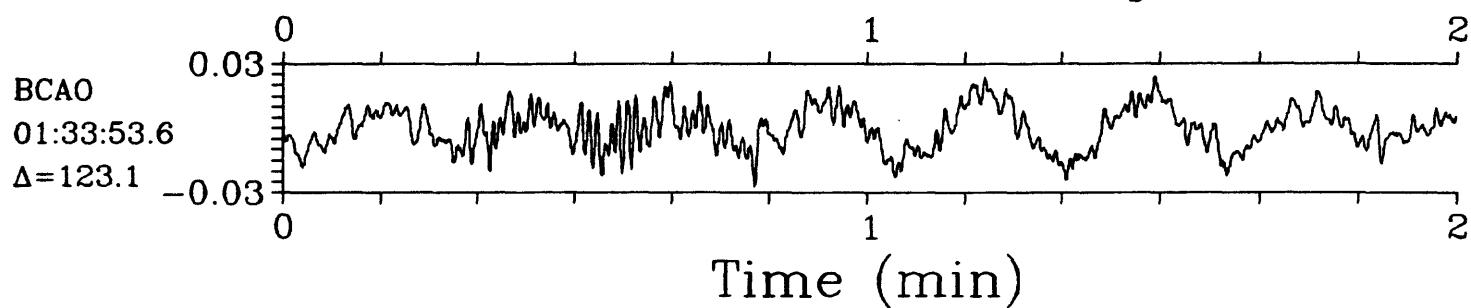
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

SPZ

08 May 1986 01:15:14.68

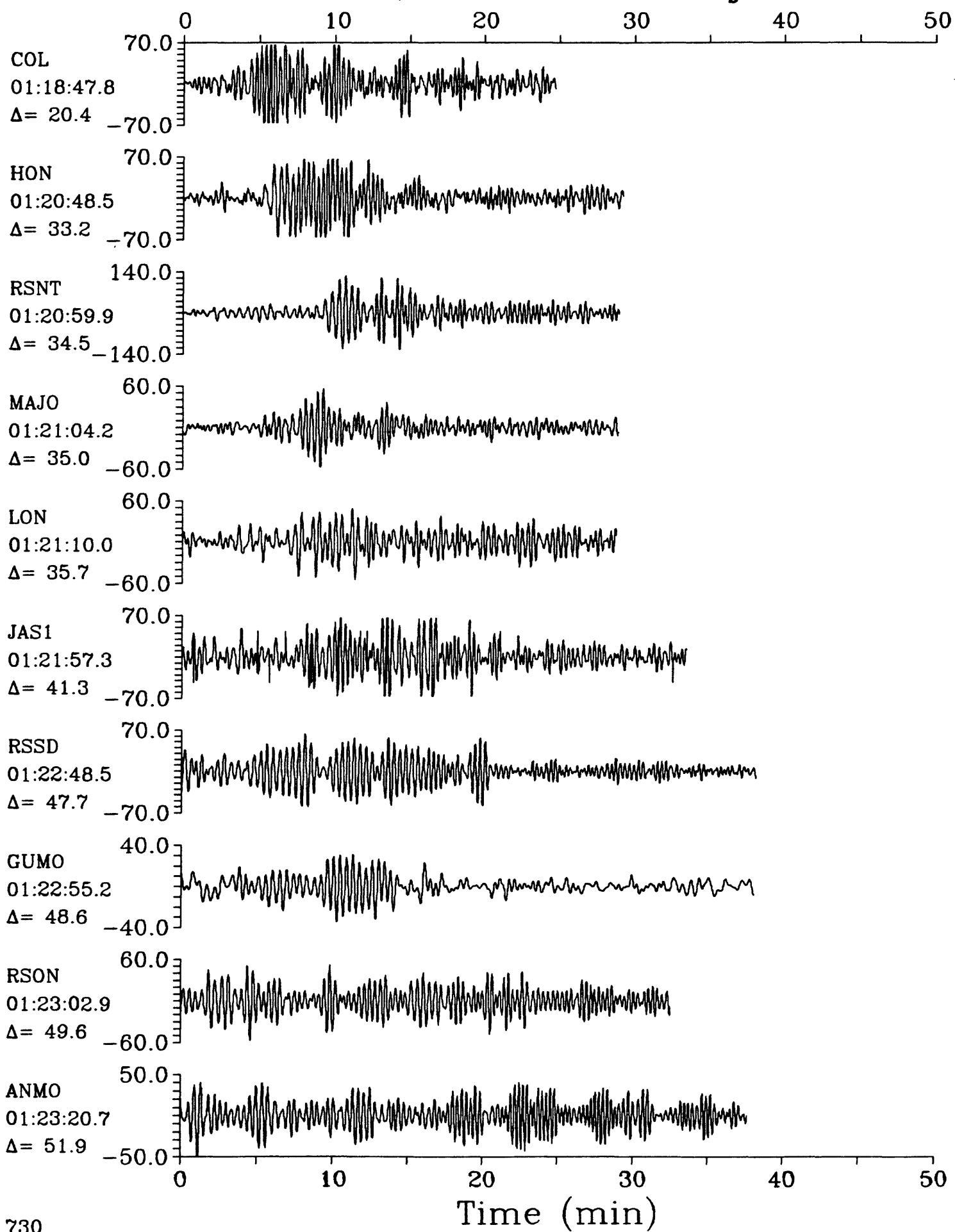
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

LPZ

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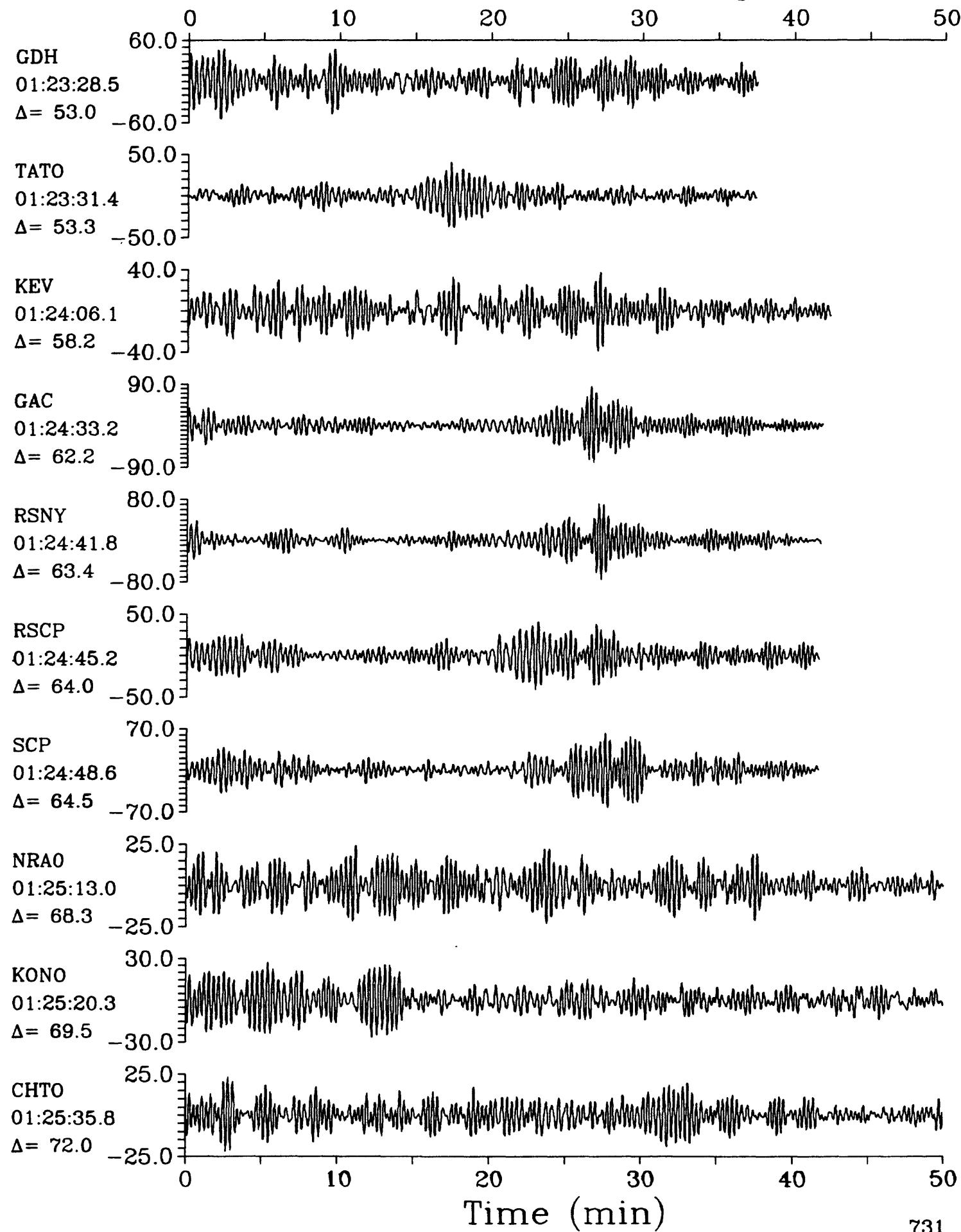
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Andreanof Islands, Aleutian Is. h=33.0 m_b=5.6

LPZ

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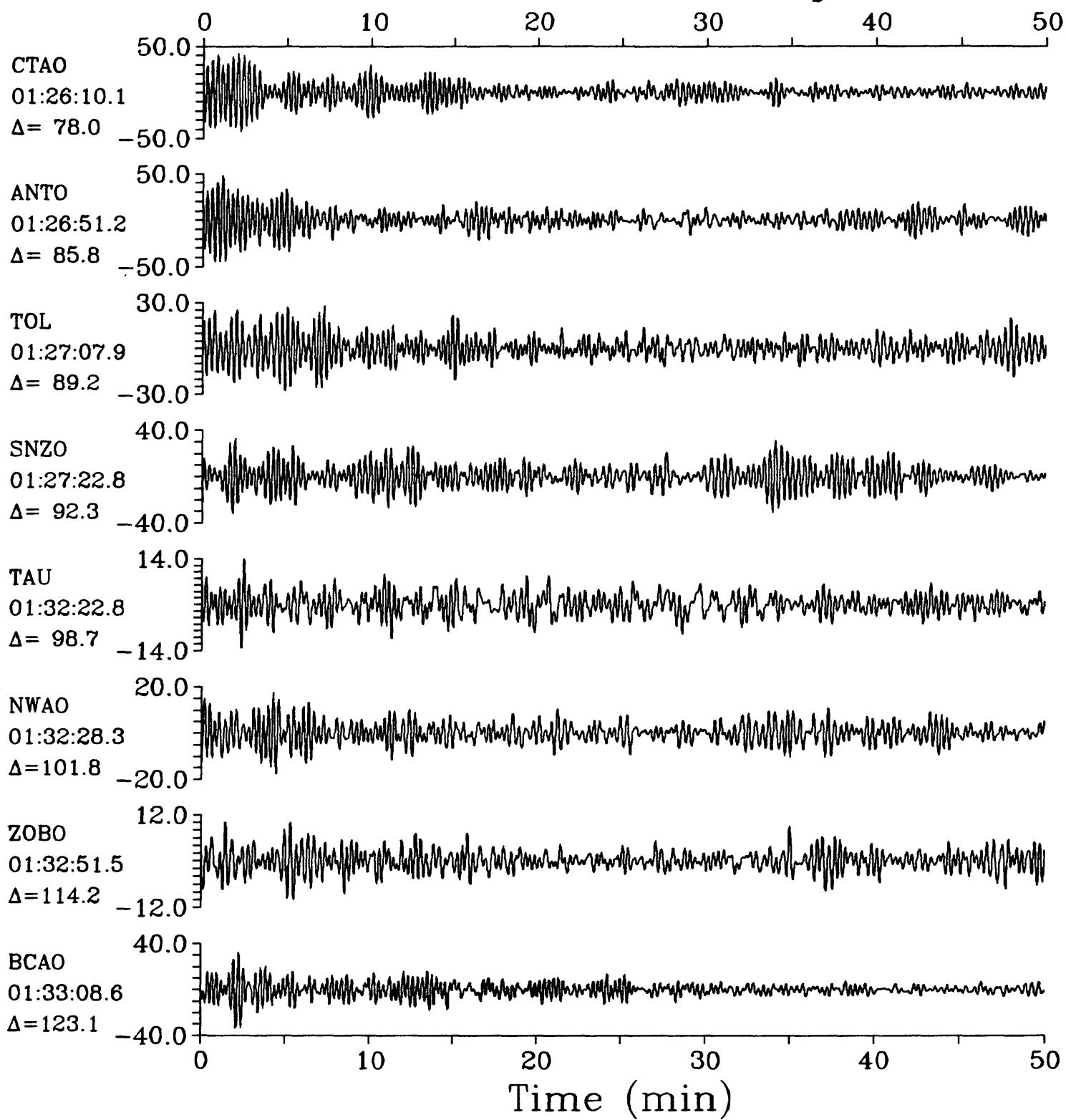
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

LPZ

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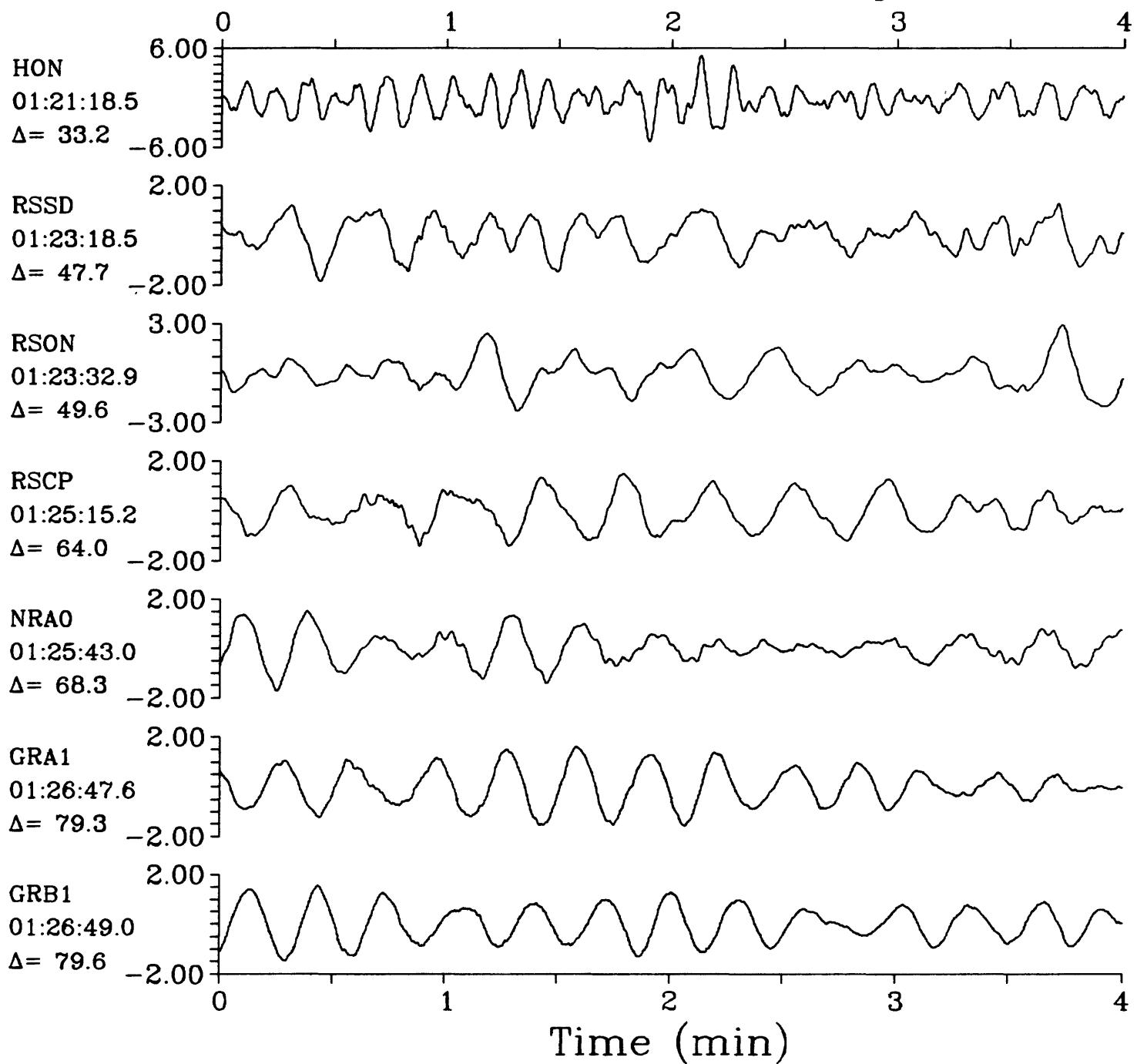
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

IPZ

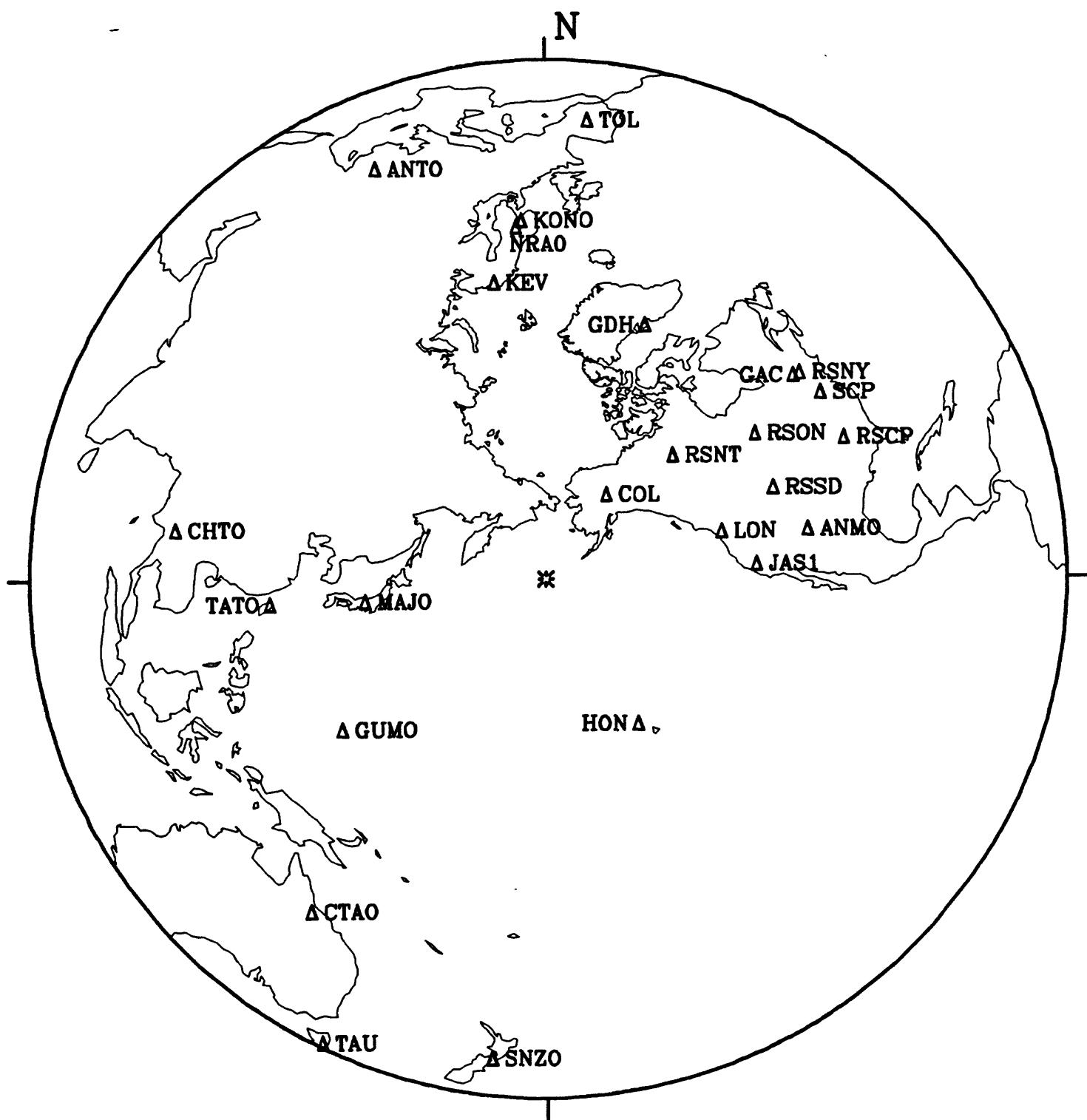
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ 

08 May 1986 02:04:00.05

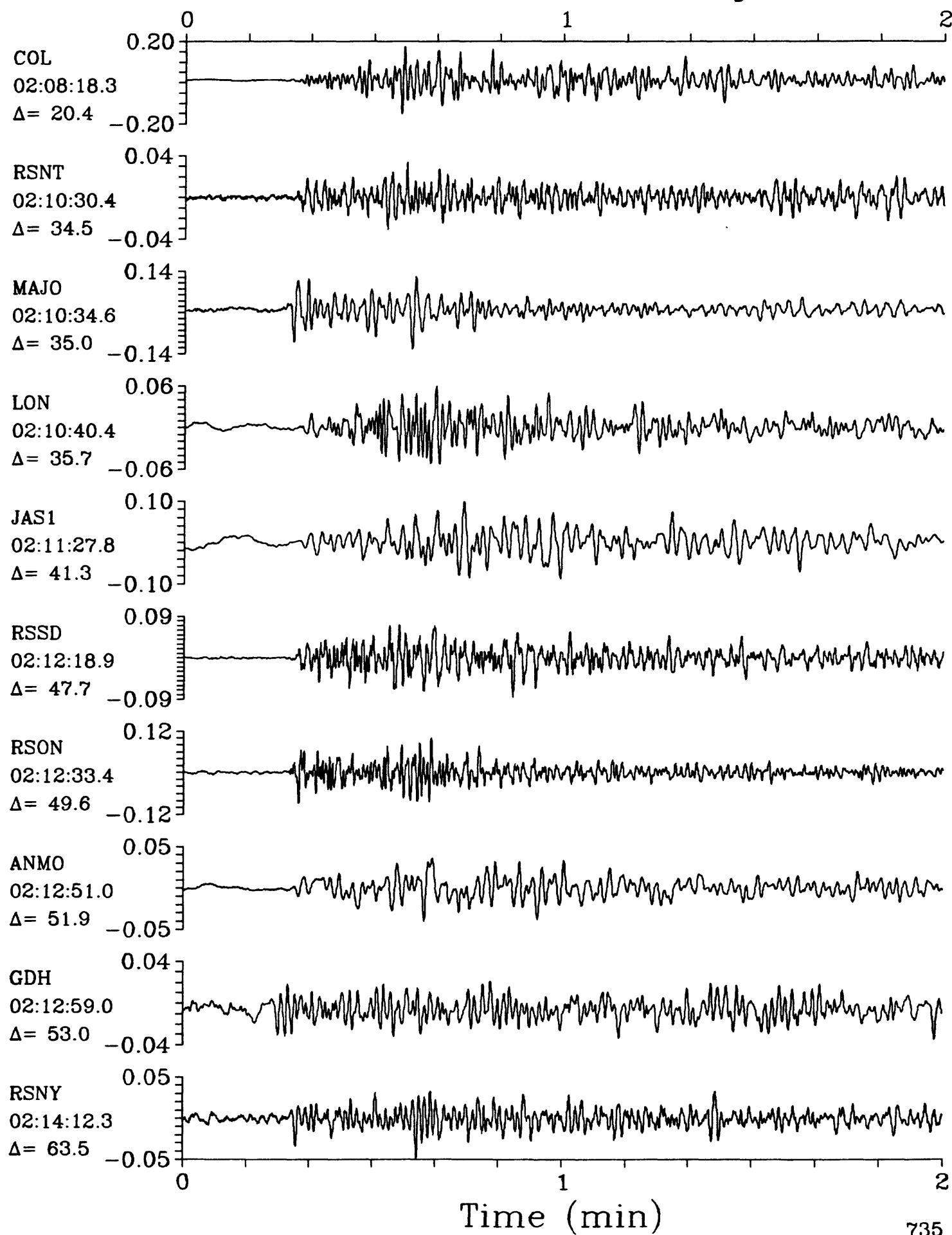
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SPZ

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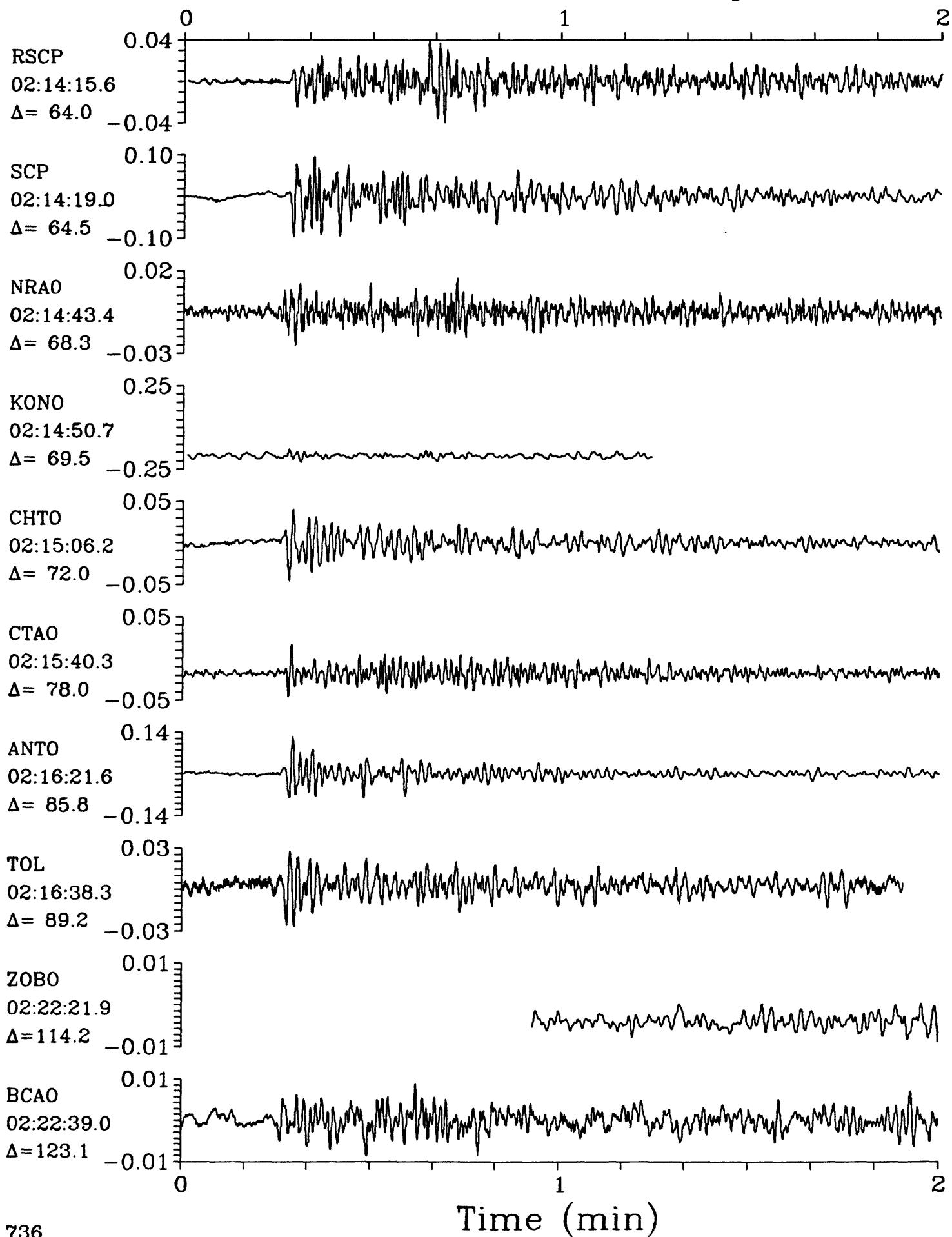
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ 

SPZ

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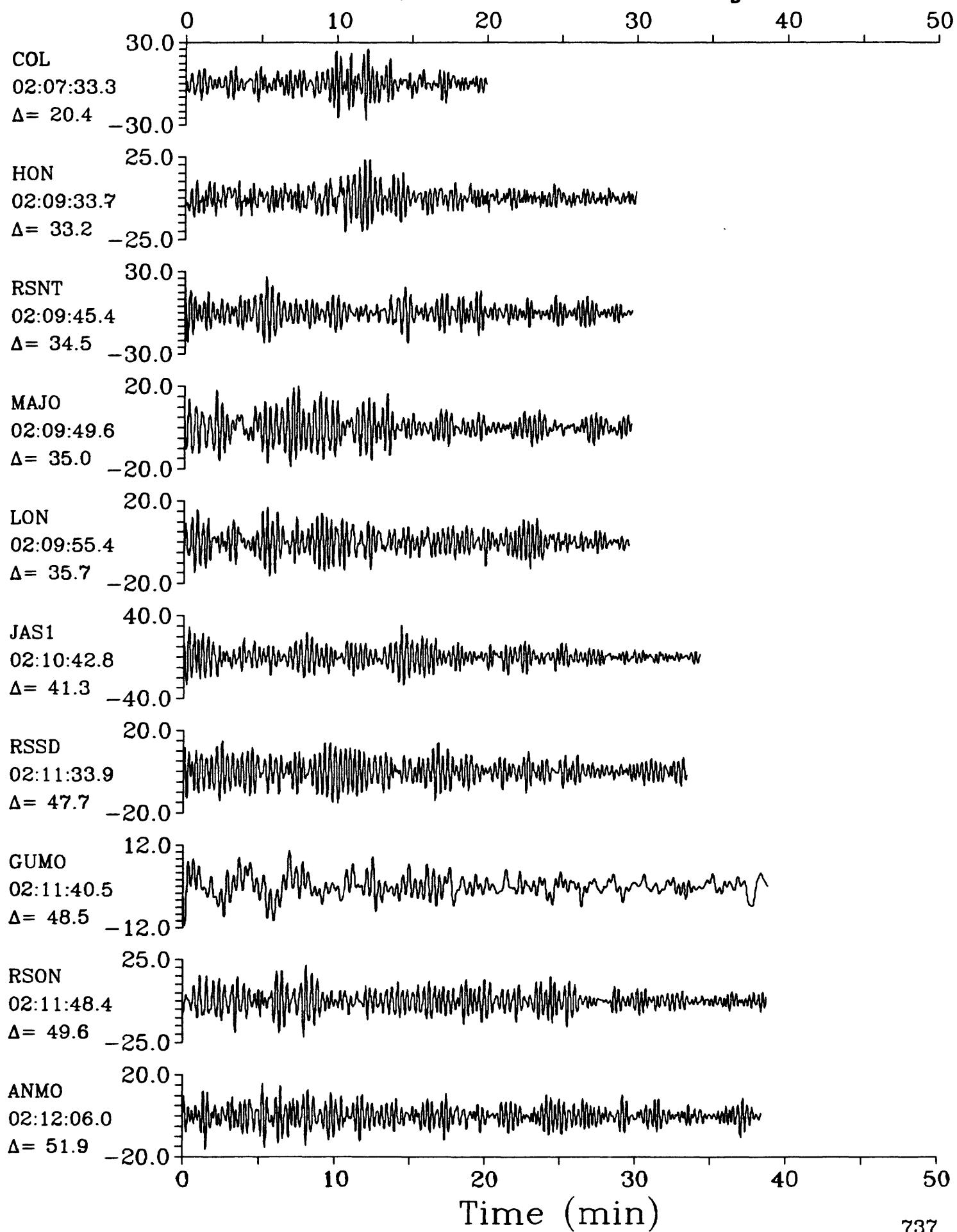
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ 

LPZ

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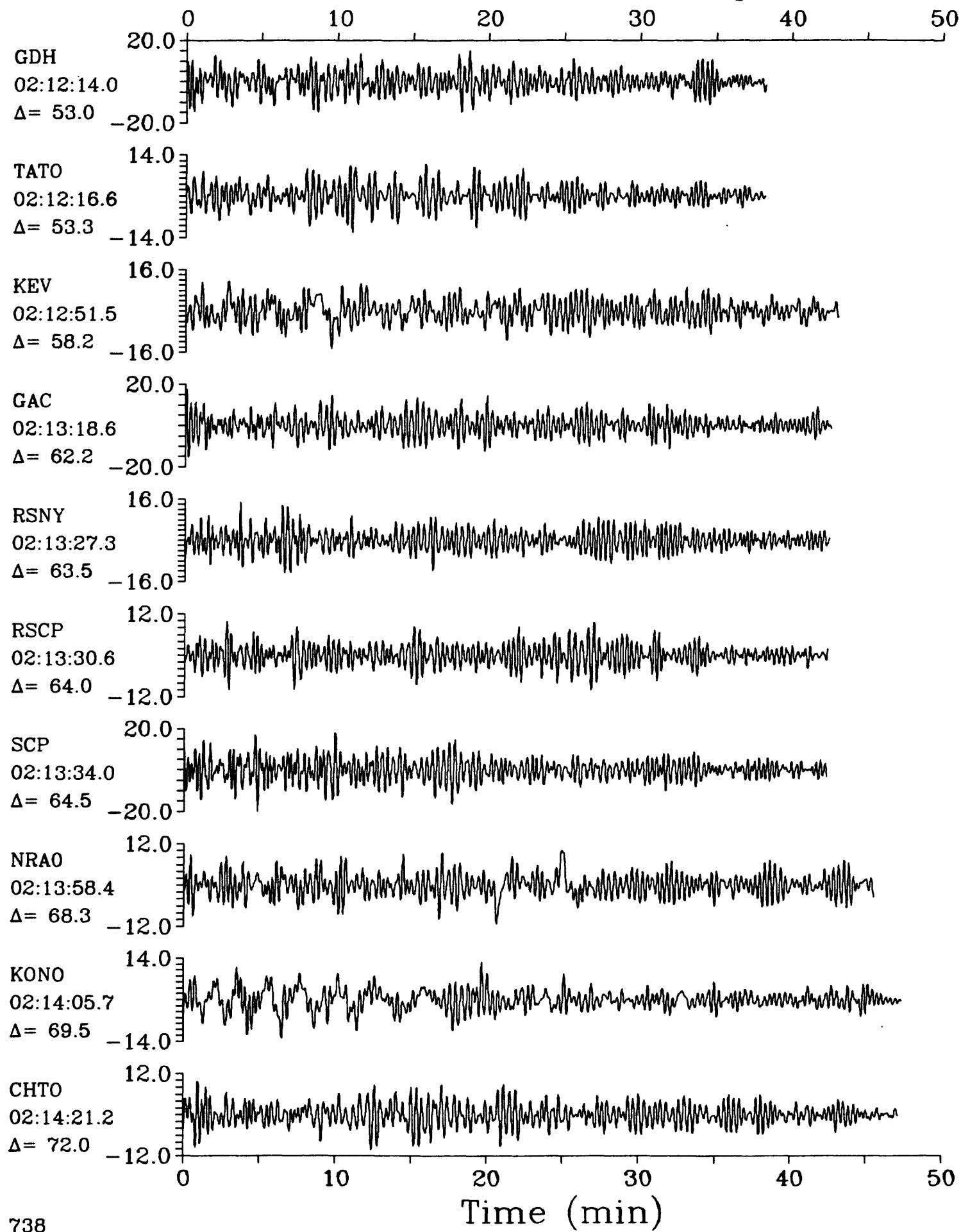
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ 

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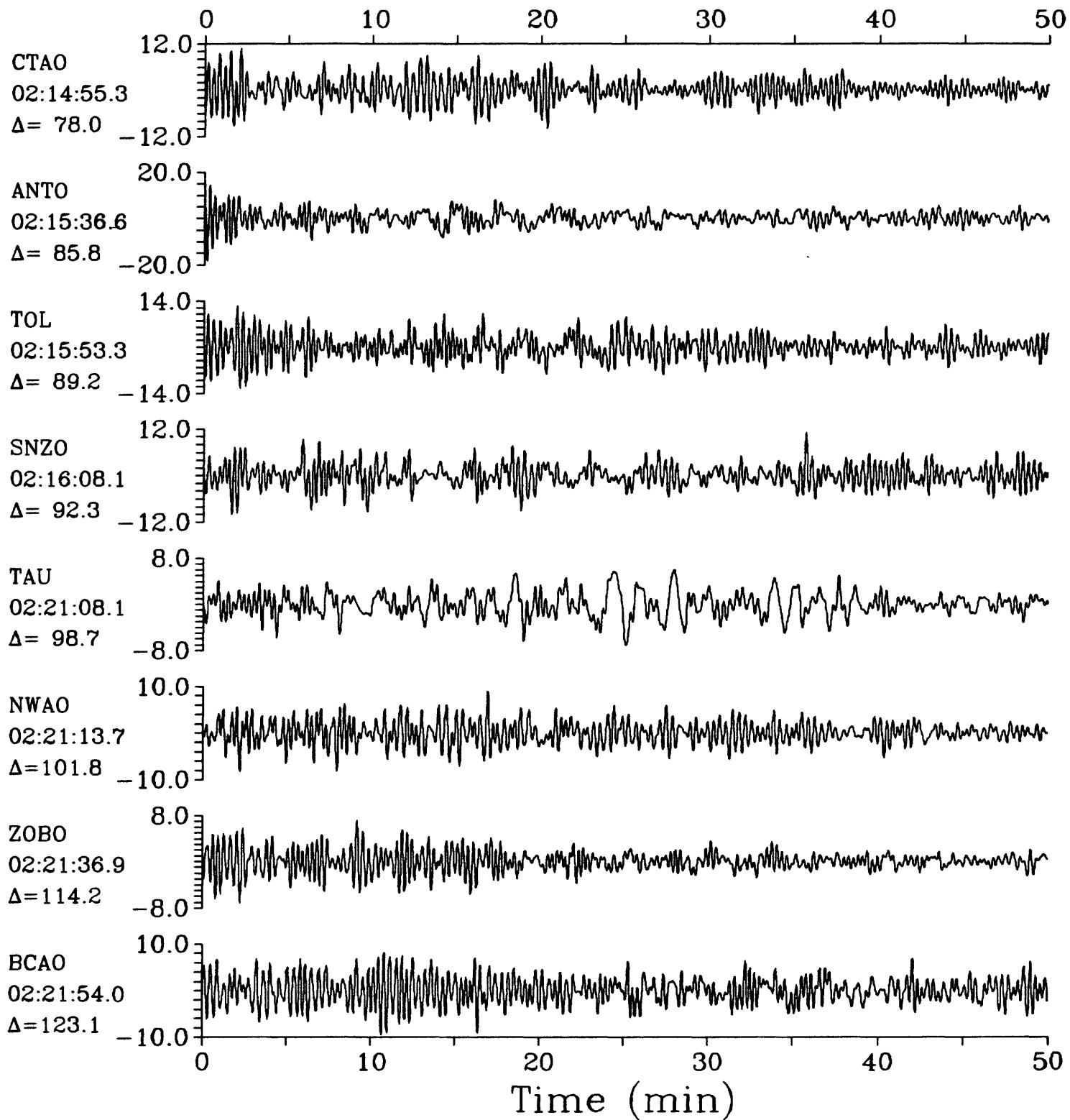
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ 

LPZ

08 May 1986 02:04:00.05

LPZ

Andreanof Islands, Aleutian Is. h=33.0 m_b=5.5

08 May 1986 04:03:49.85

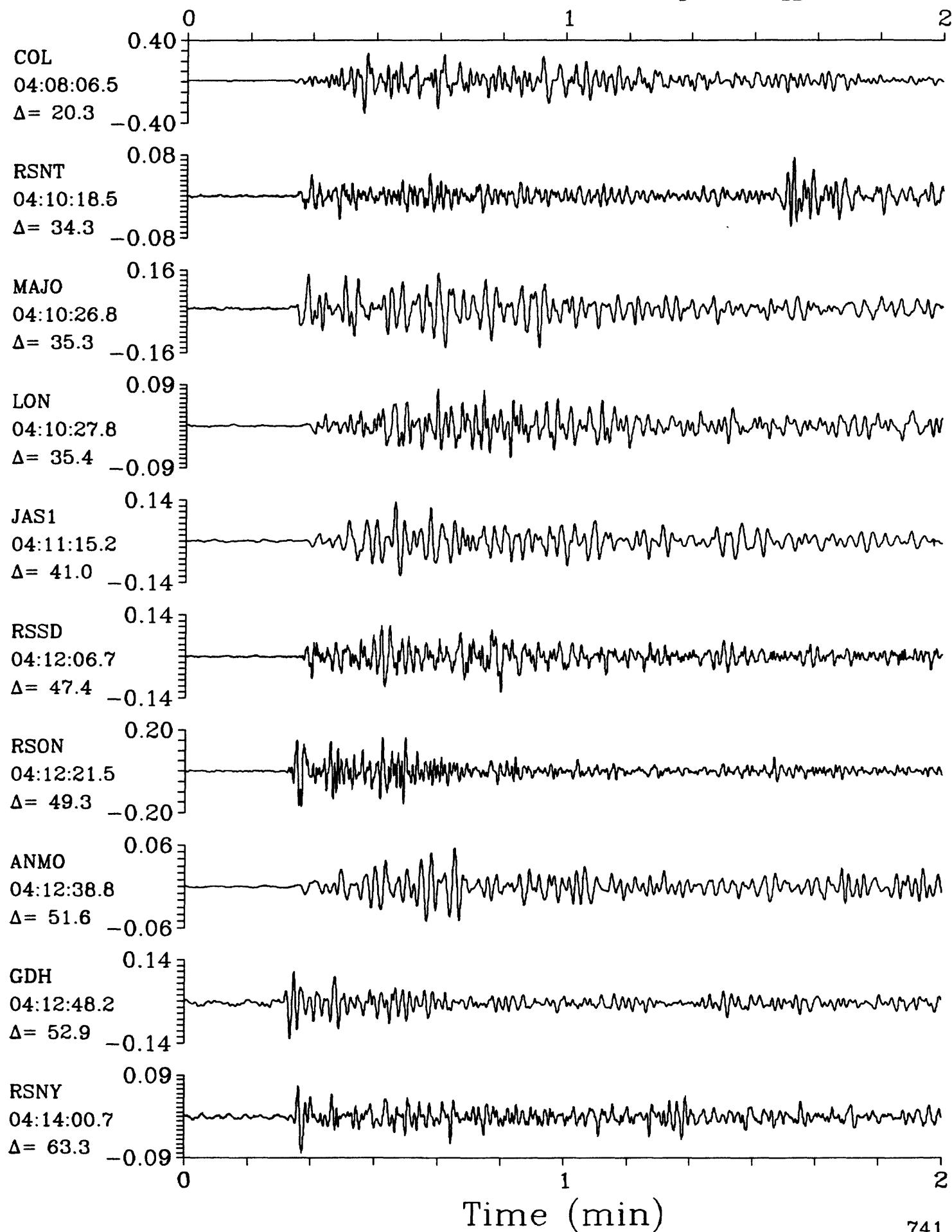
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SPZ

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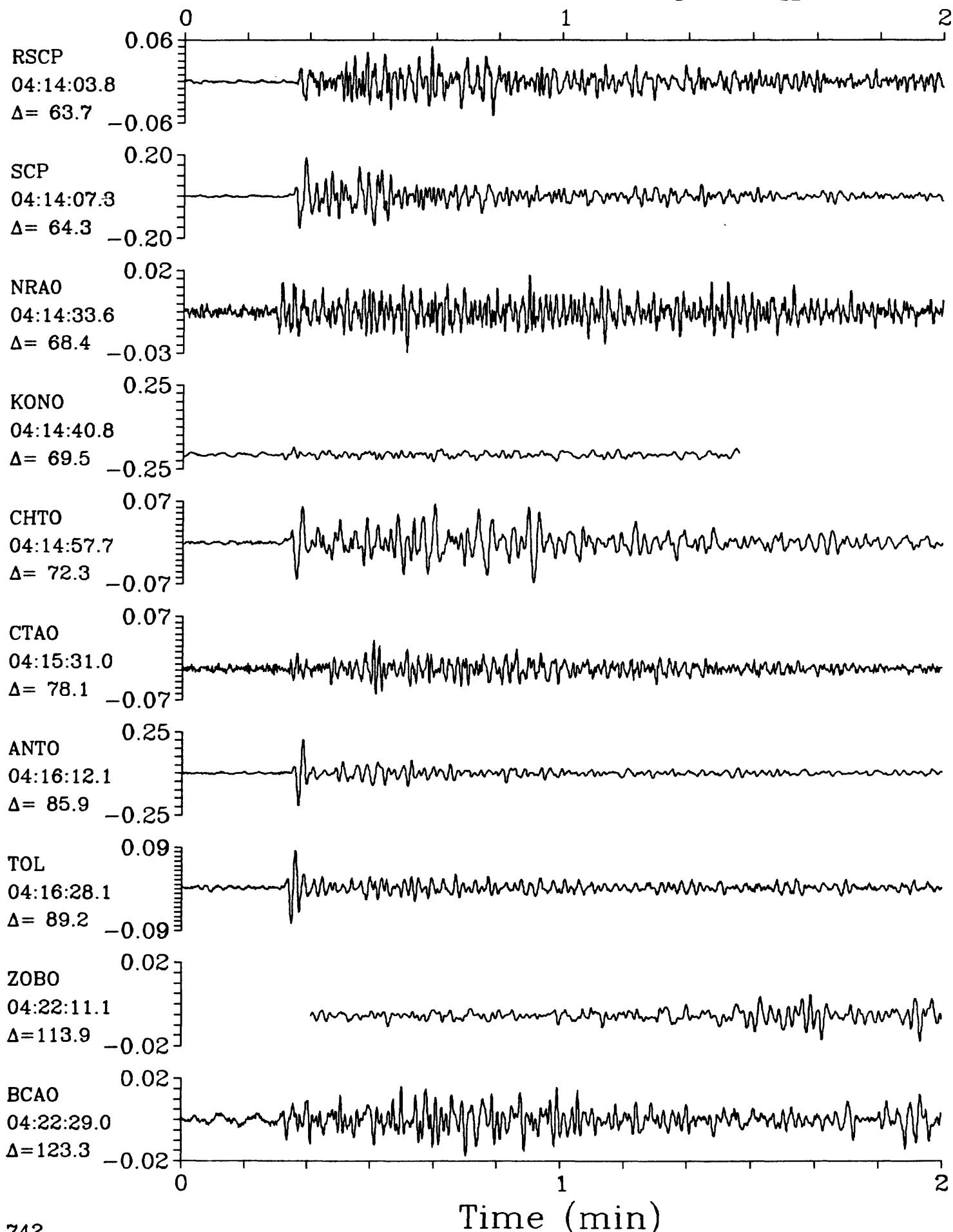
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=5.4$ 

SPZ

08 May 1986 04:03:49.85

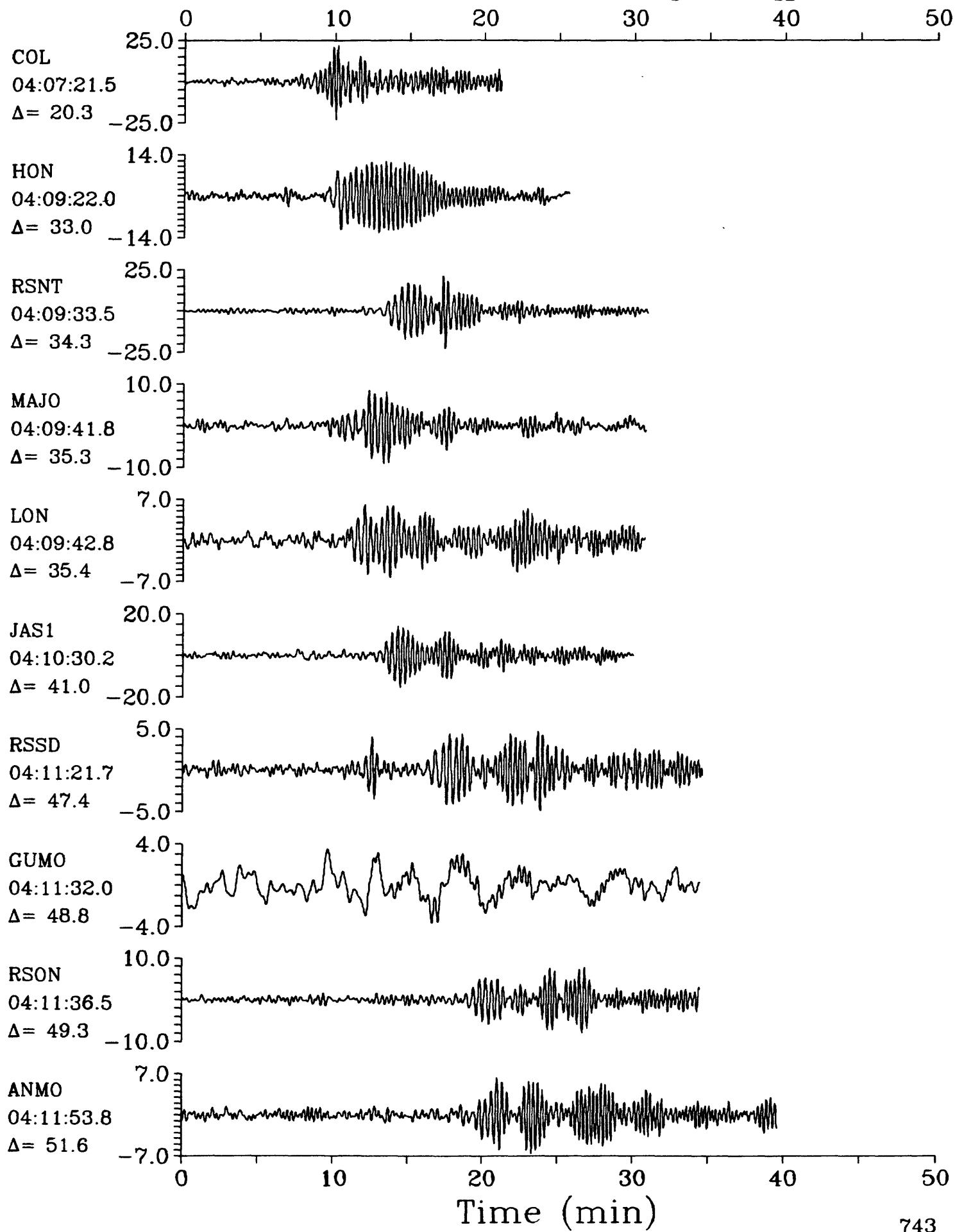
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=5.4$ 

LPZ

08 May 1986 04:03:49.85

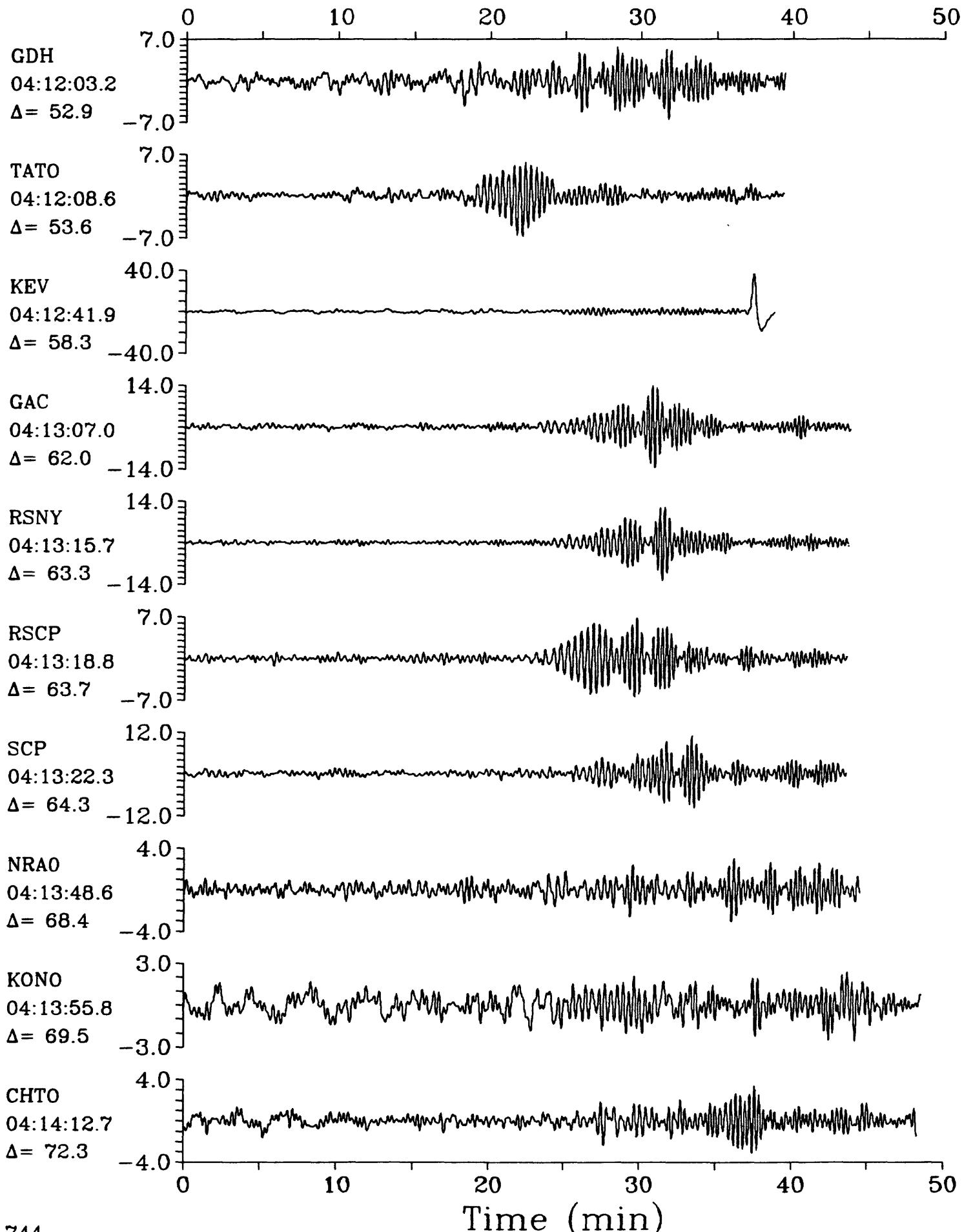
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=5.4$ 

LPZ

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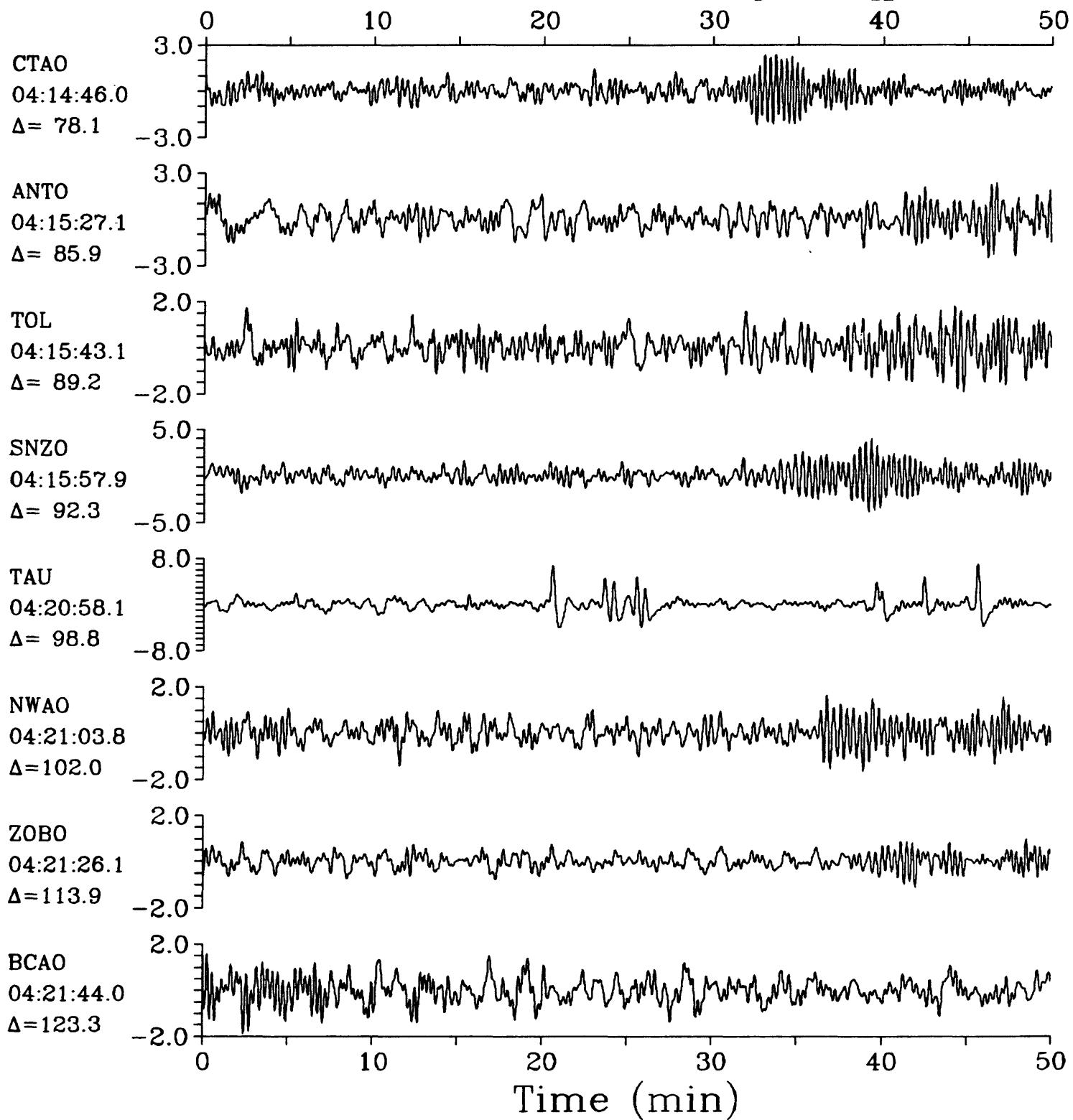
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Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=5.4$ 

LPZ

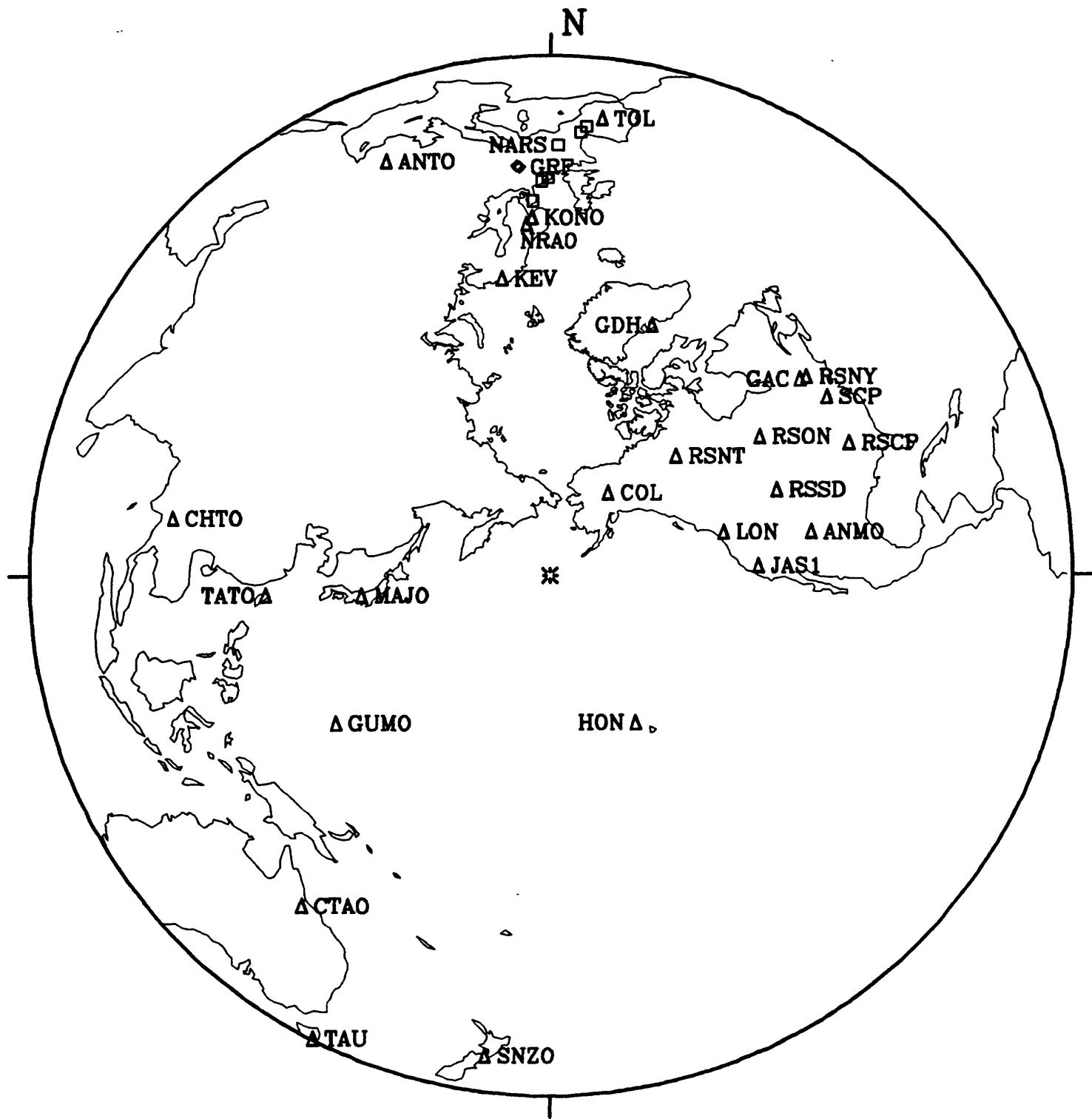
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LPZ

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08 May 1986 05:37:22.24

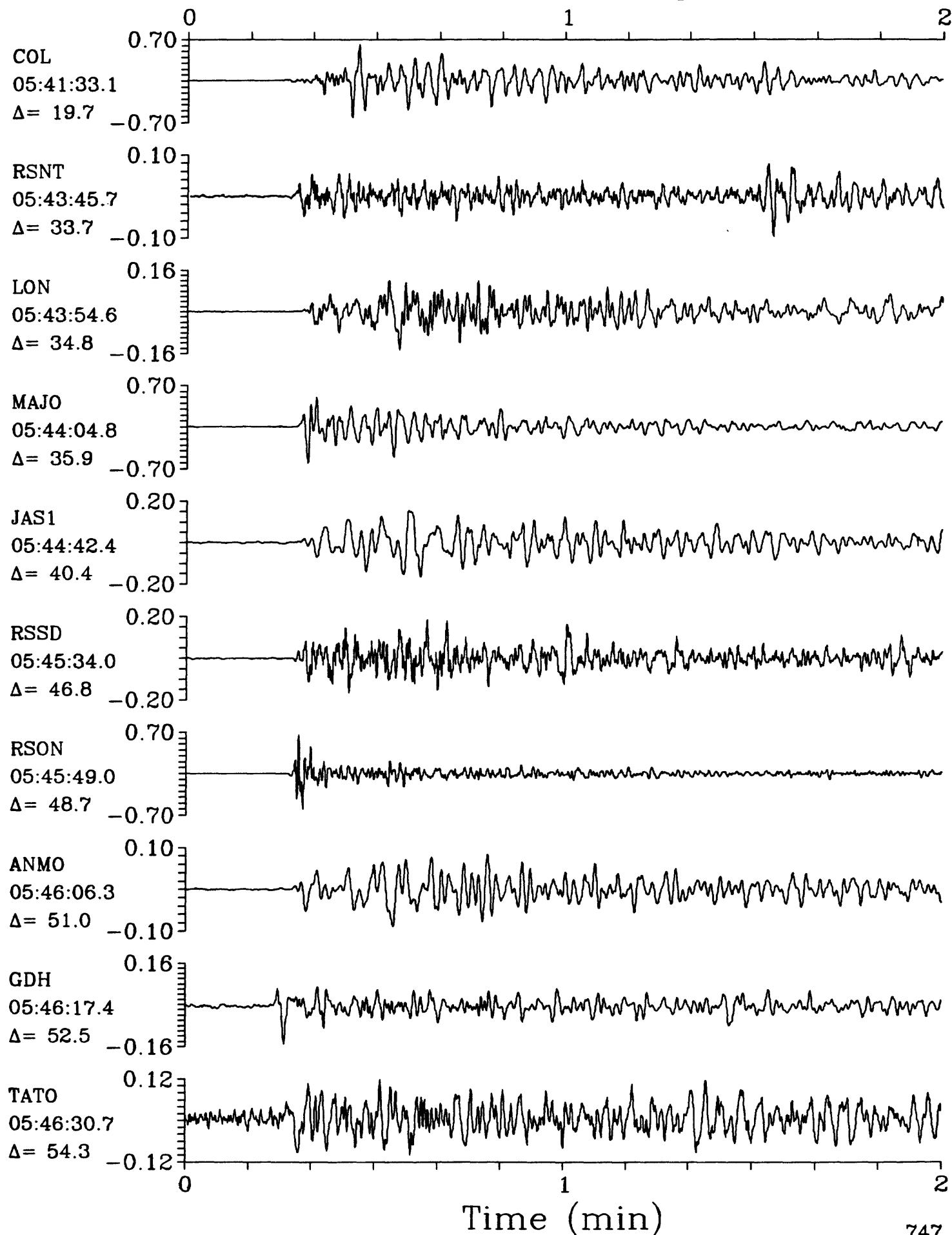
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SPZ

08 May 1986 05:37:22.24

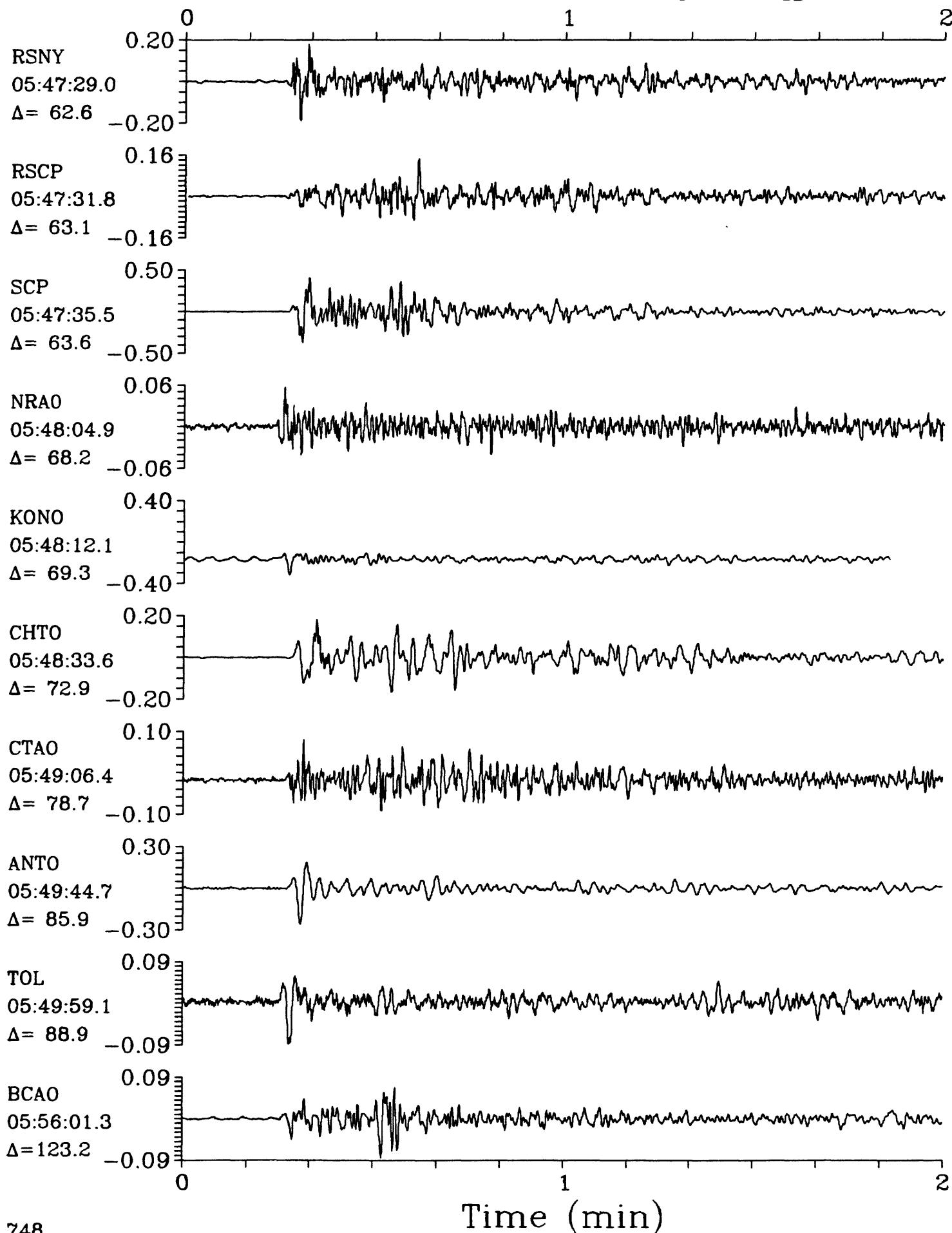
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.0$ $M_{sz}=6.2$ 

SPZ

08 May 1986 05:37:22.24

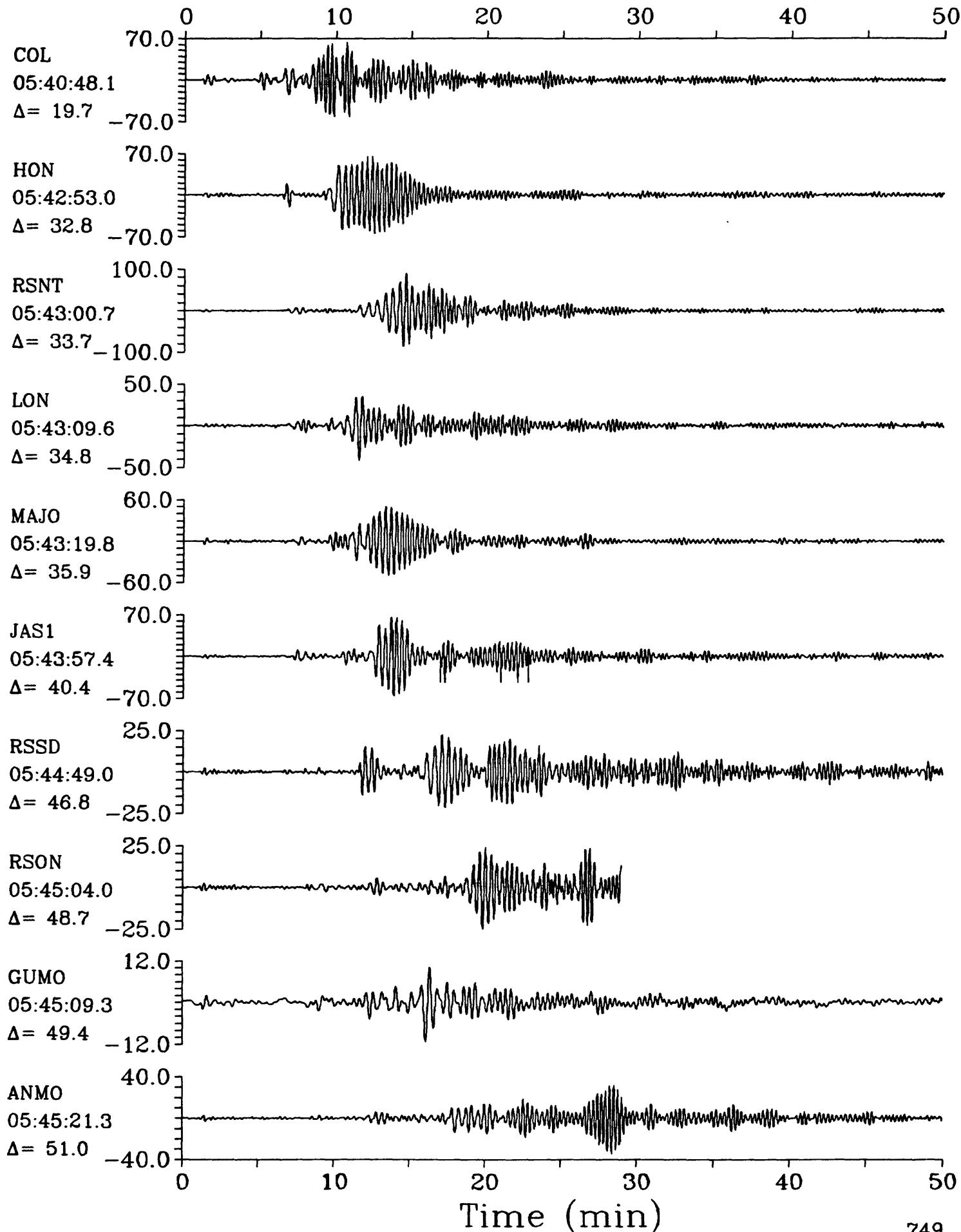
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.0$ $M_{sz}=6.2$ 

LPZ

08 May 1986 05:37:22.24

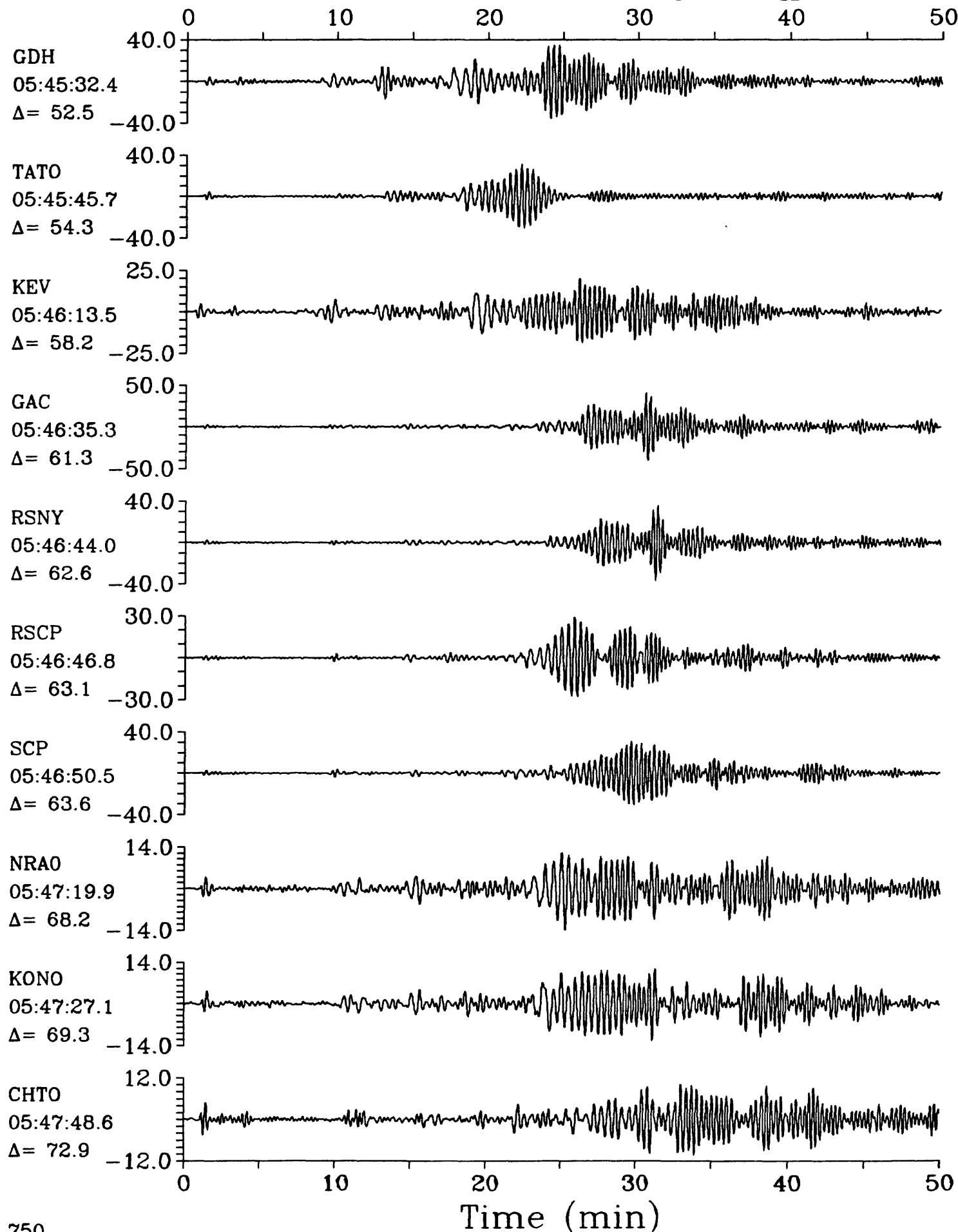
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.0$ $M_{SZ}=6.2$ 

LPZ

08 May 1986 05:37:22.24

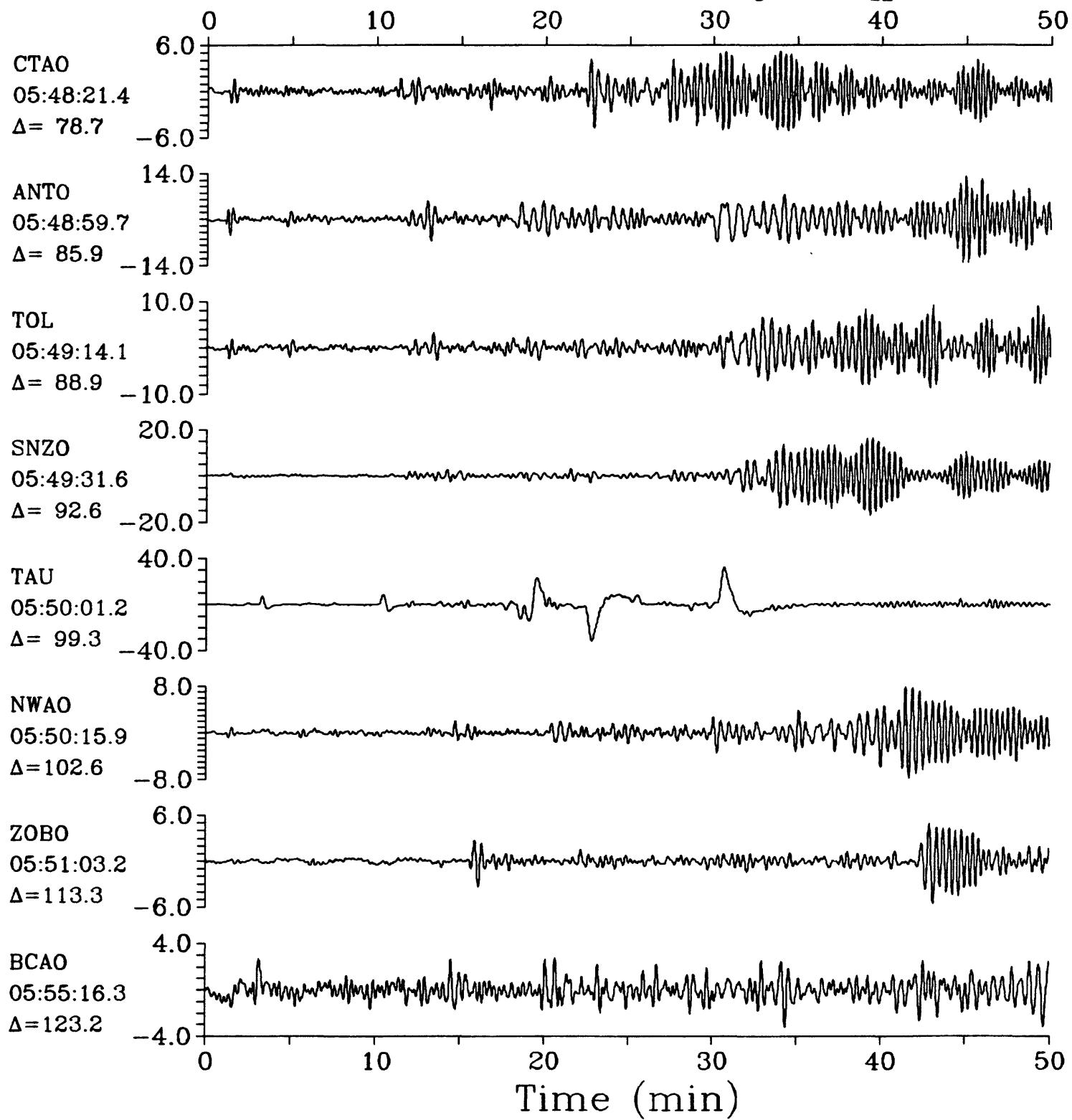
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.0$ $M_{sz}=6.2$ 

LPZ

08 May 1986 05:37:22.24

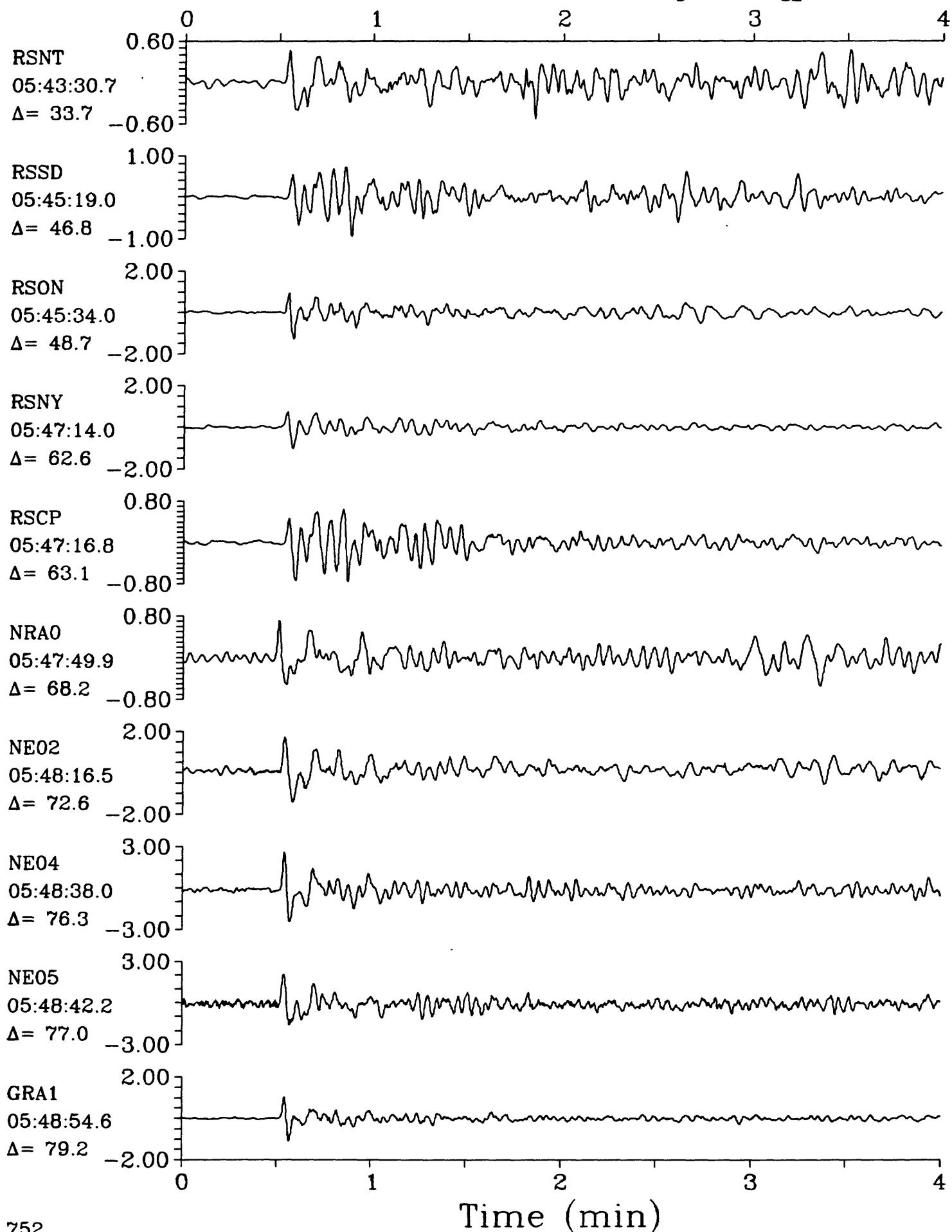
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.0$ $M_{sz}=6.2$ 

IPZ

08 May 1986 05:37:22.24

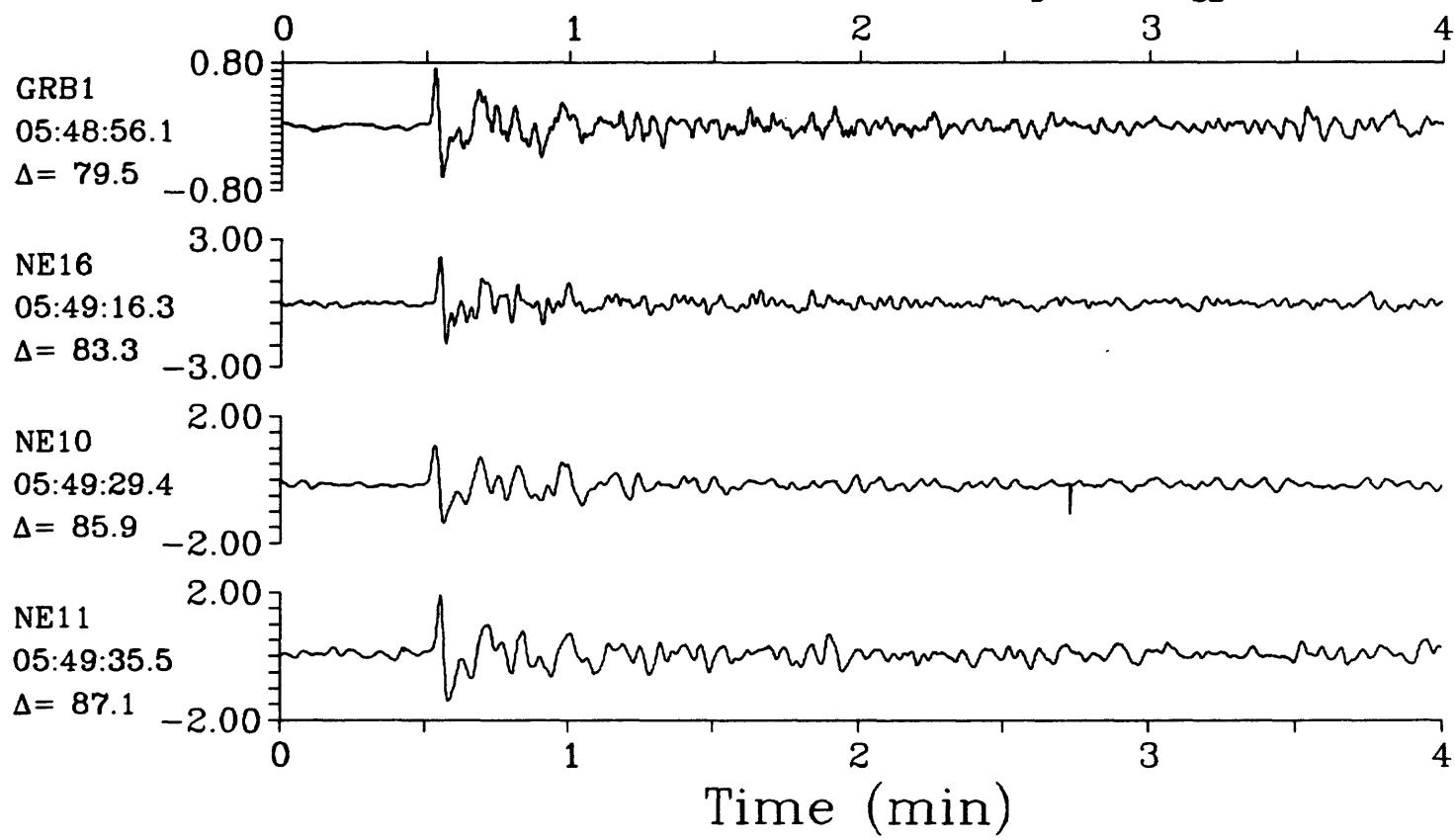
IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.0$ $M_{sz}=6.2$ 

IPZ

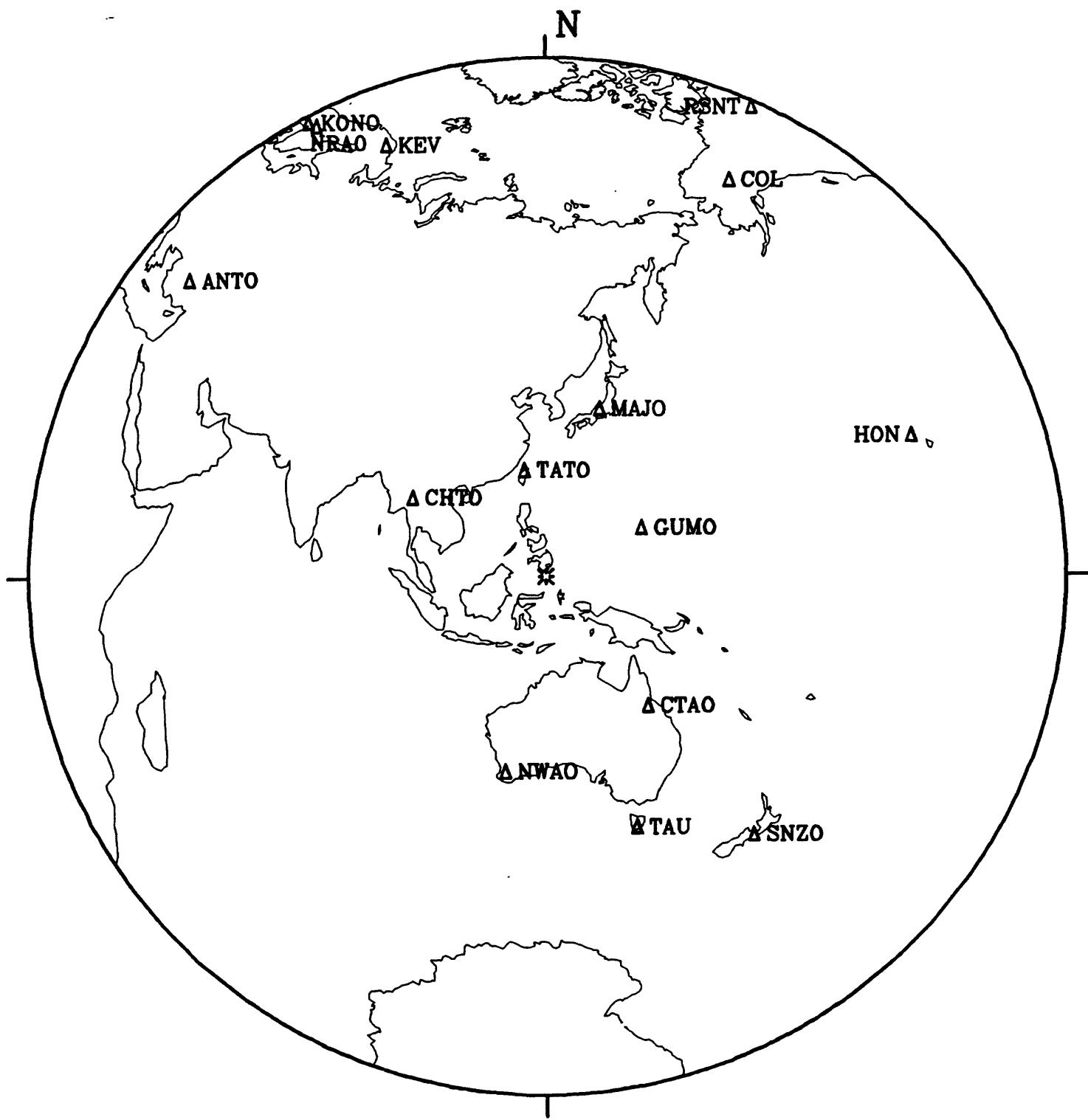
08 May 1986 05:37:22.24

IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=6.0$ $M_{sz}=6.2$ 

08 May 1986 14:37:35.37

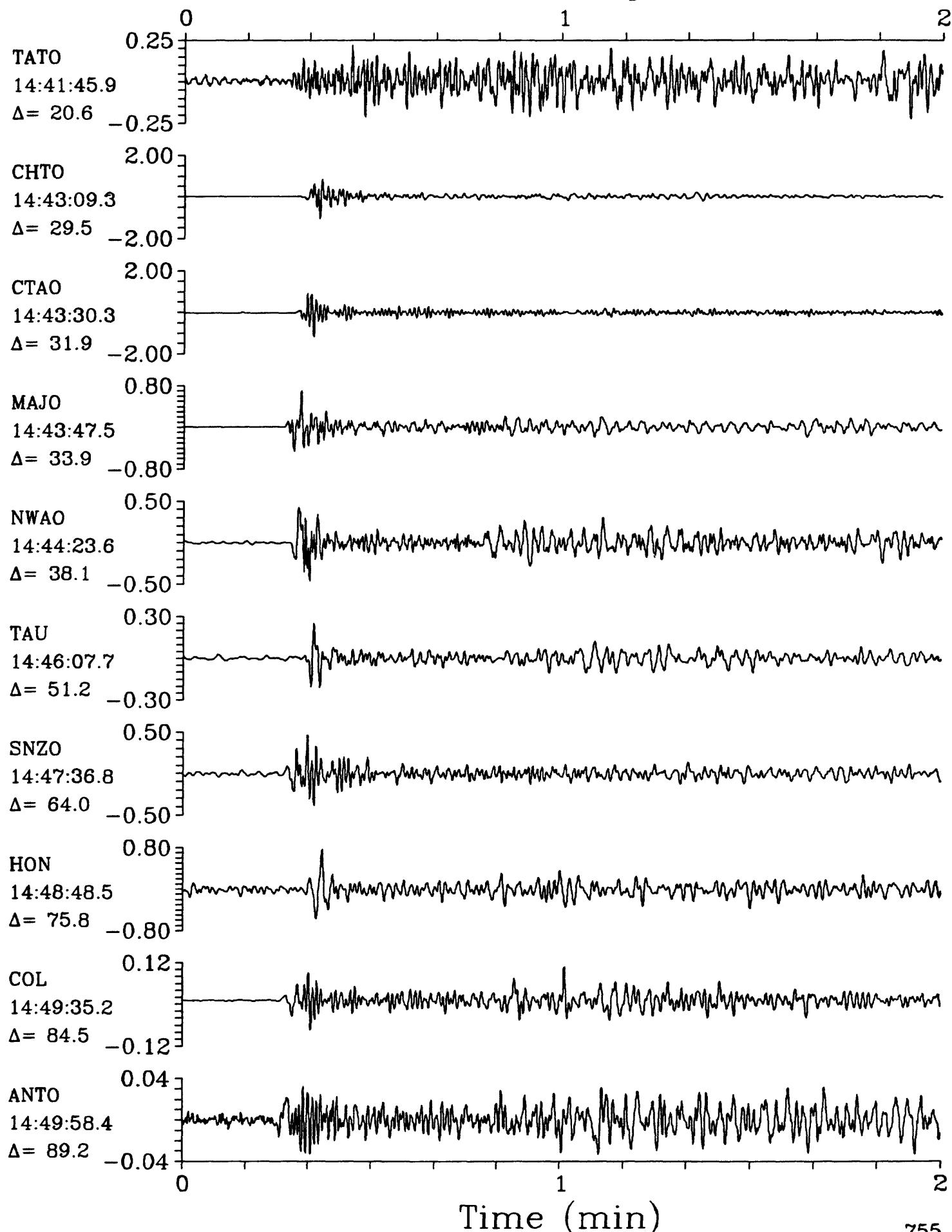
Talaud Islands



SPZ

08 May 1986 14:37:35.37
Talaud Islands $h=162.0$ $m_b=5.8$

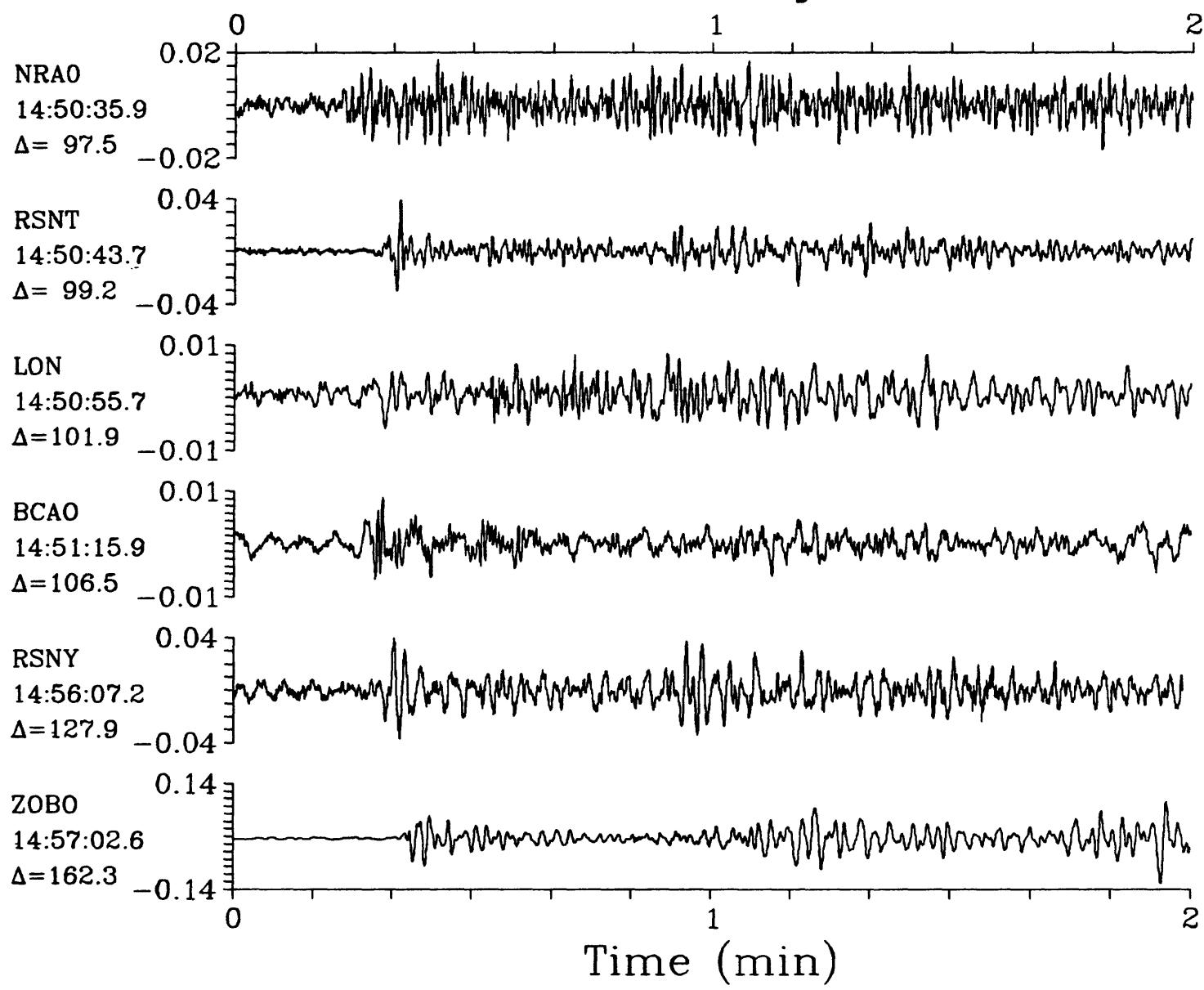
SPZ



SPZ

08 May 1986 14:37:35.37
Talaud Islands $h=162.0$ $m_b=5.8$

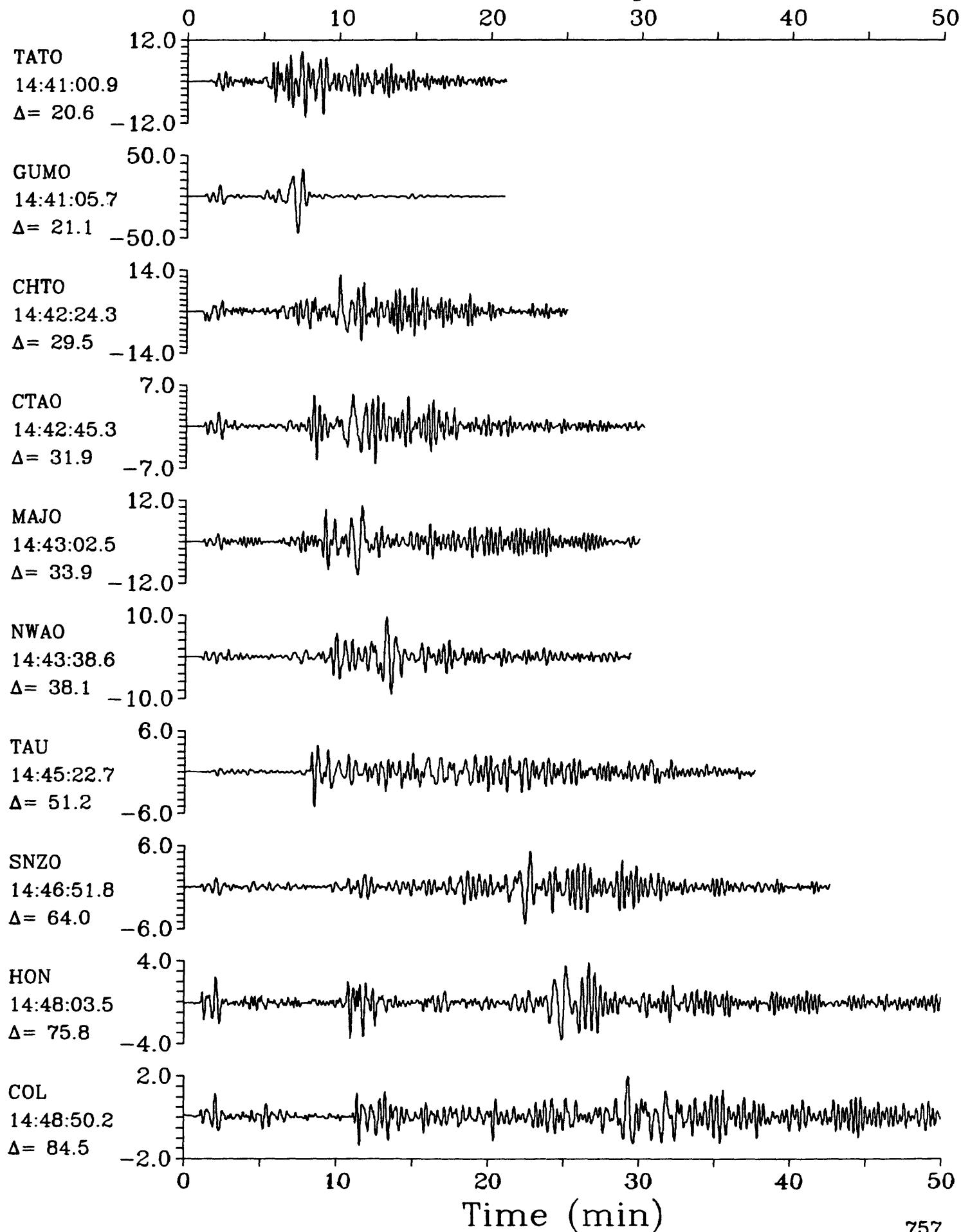
SPZ



LPZ

08 May 1986 14:37:35.37
Talaud Islands $h=162.0$ $m_b=5.8$

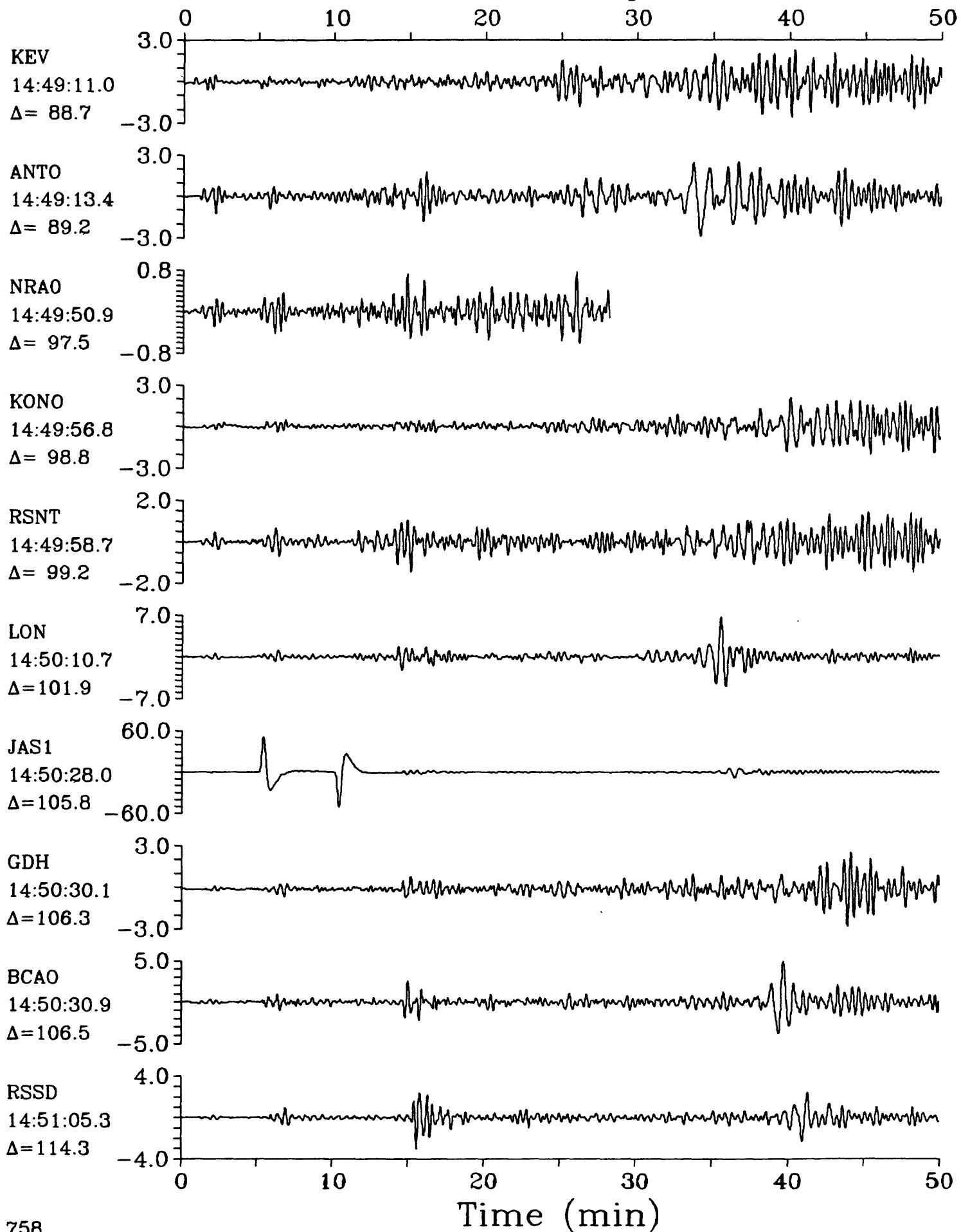
LPZ



LPZ

08 May 1986 14:37:35.37
Talaud Islands $h=162.0$ $m_b=5.8$

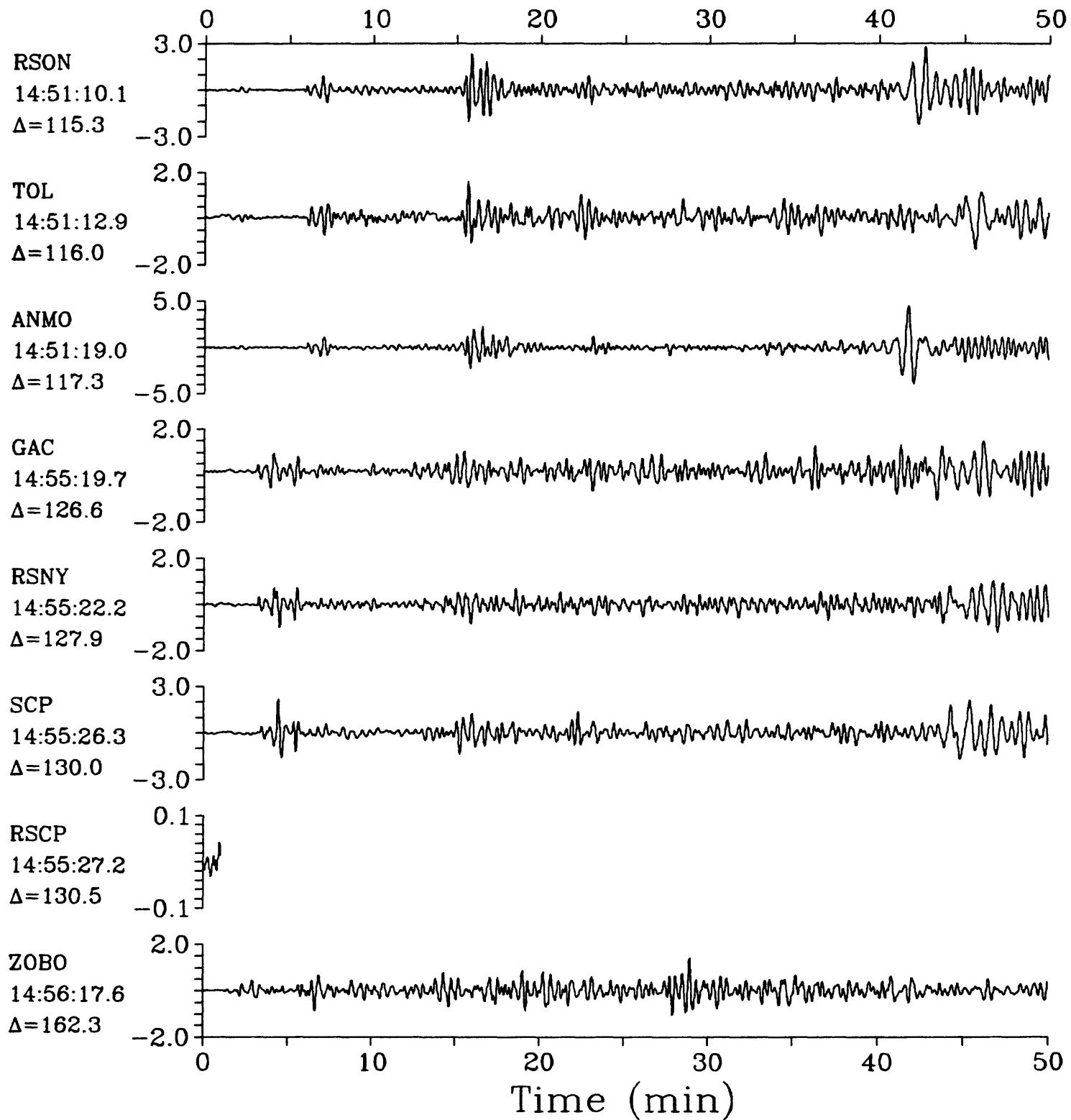
LPZ



LPZ

08 May 1986 14:37:35.37
Talaud Islands $h=162.0$ $m_b=5.8$

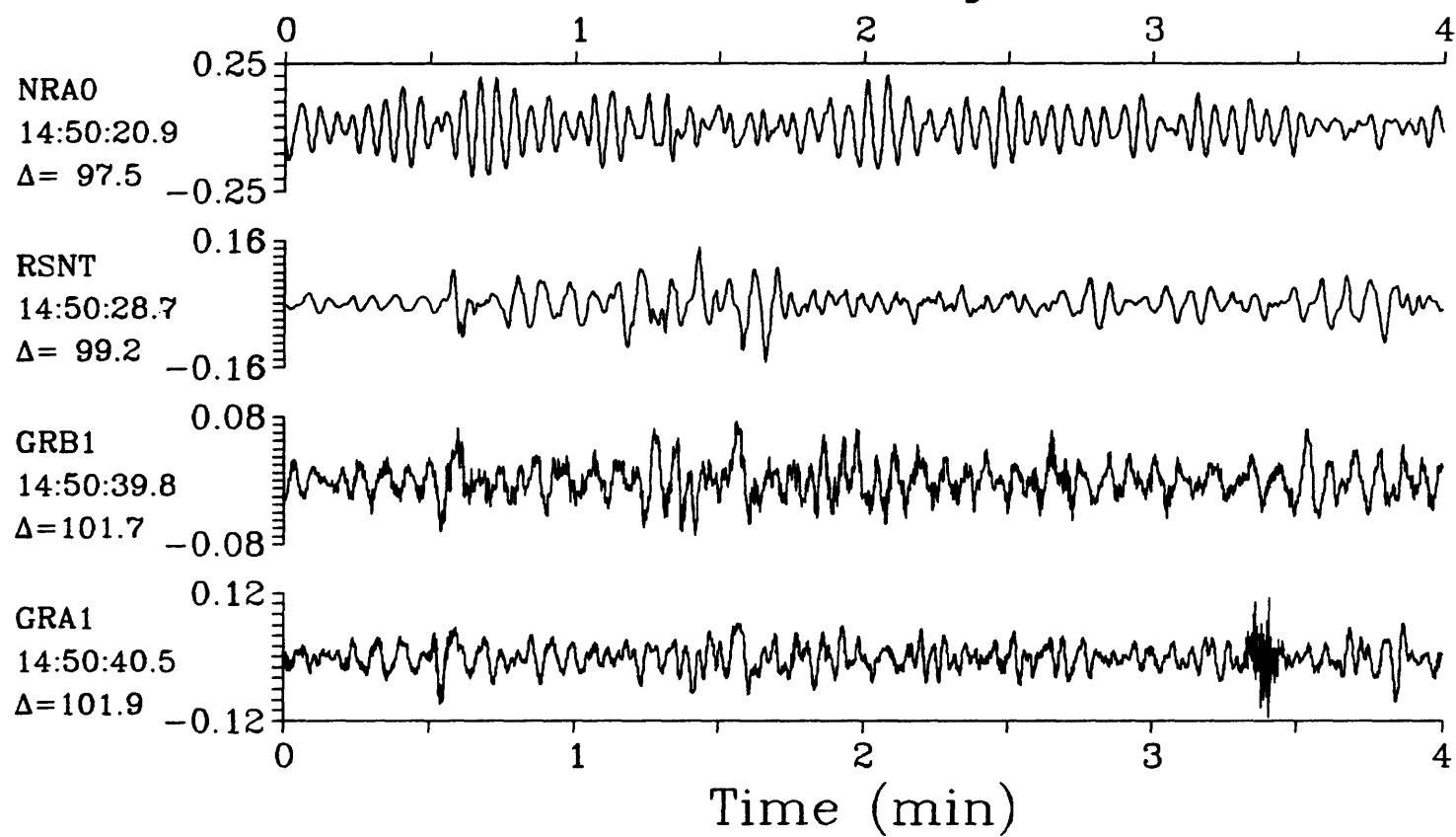
LPZ



IPZ

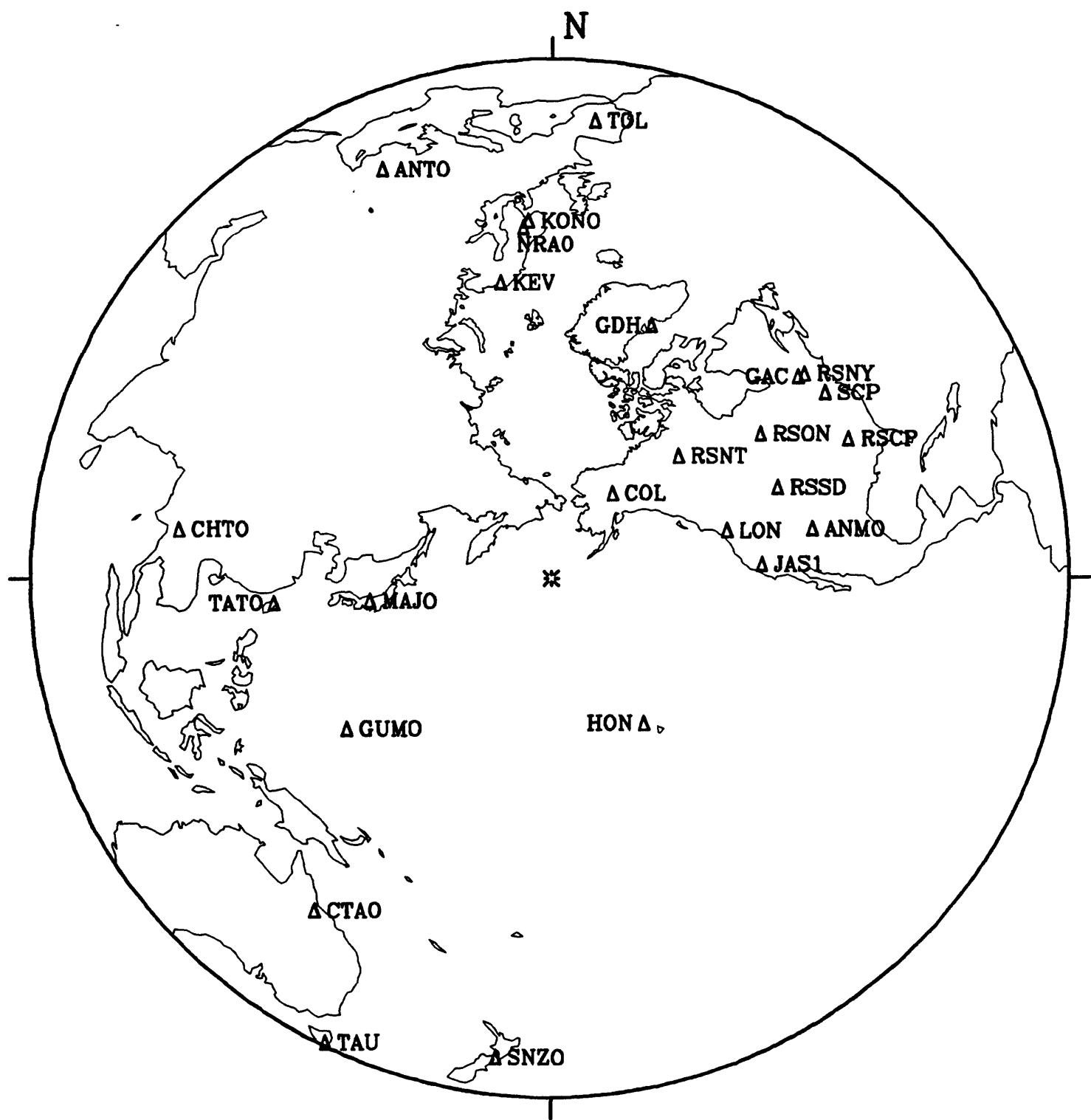
08 May 1986 14:37:35.37
Talaud Islands $h=162.0$ $m_b=5.8$

IPZ



09 May 1986 01:05:30.71

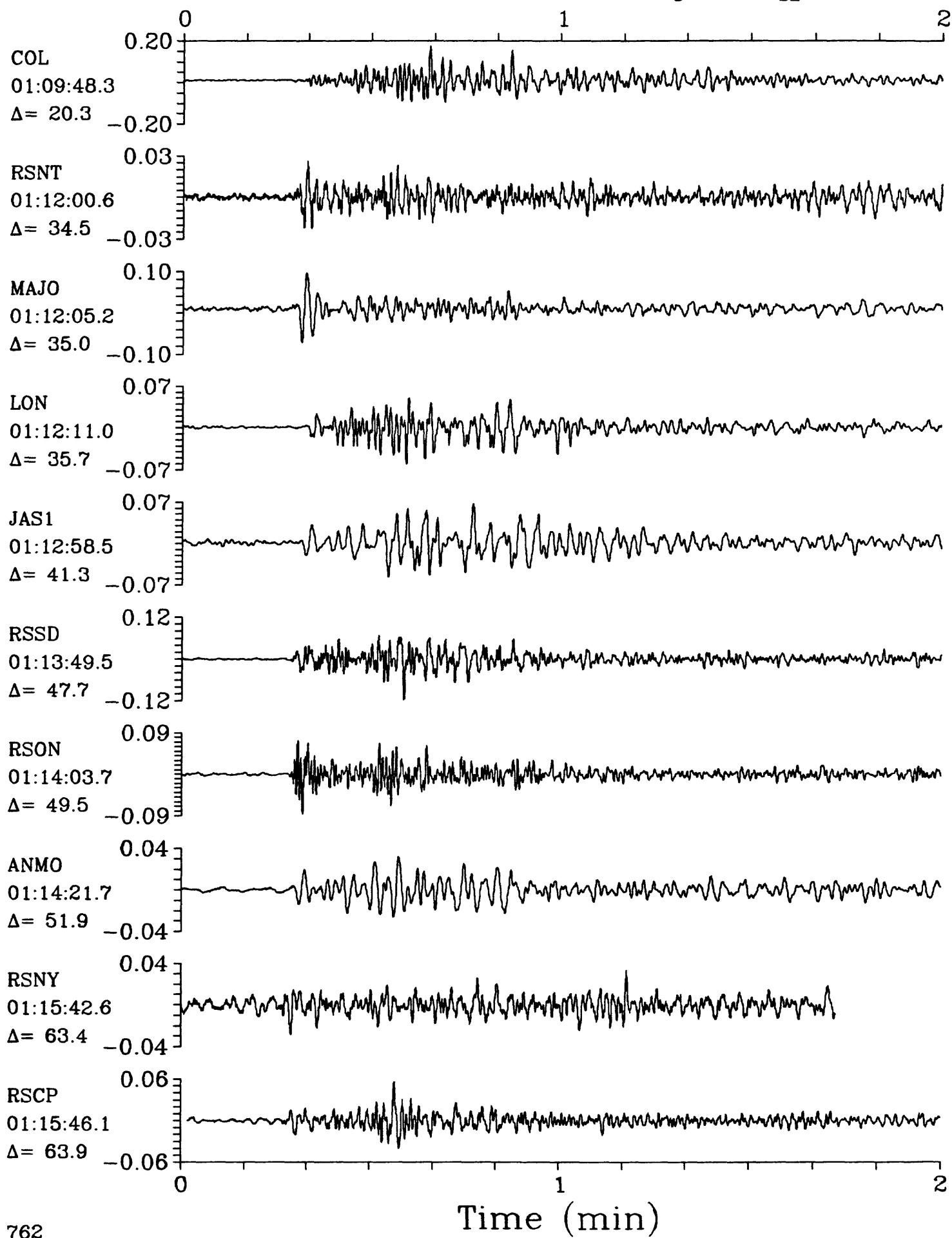
Andreanof Islands, Aleutian Is.



SPZ

09 May 1986 01:05:30.71

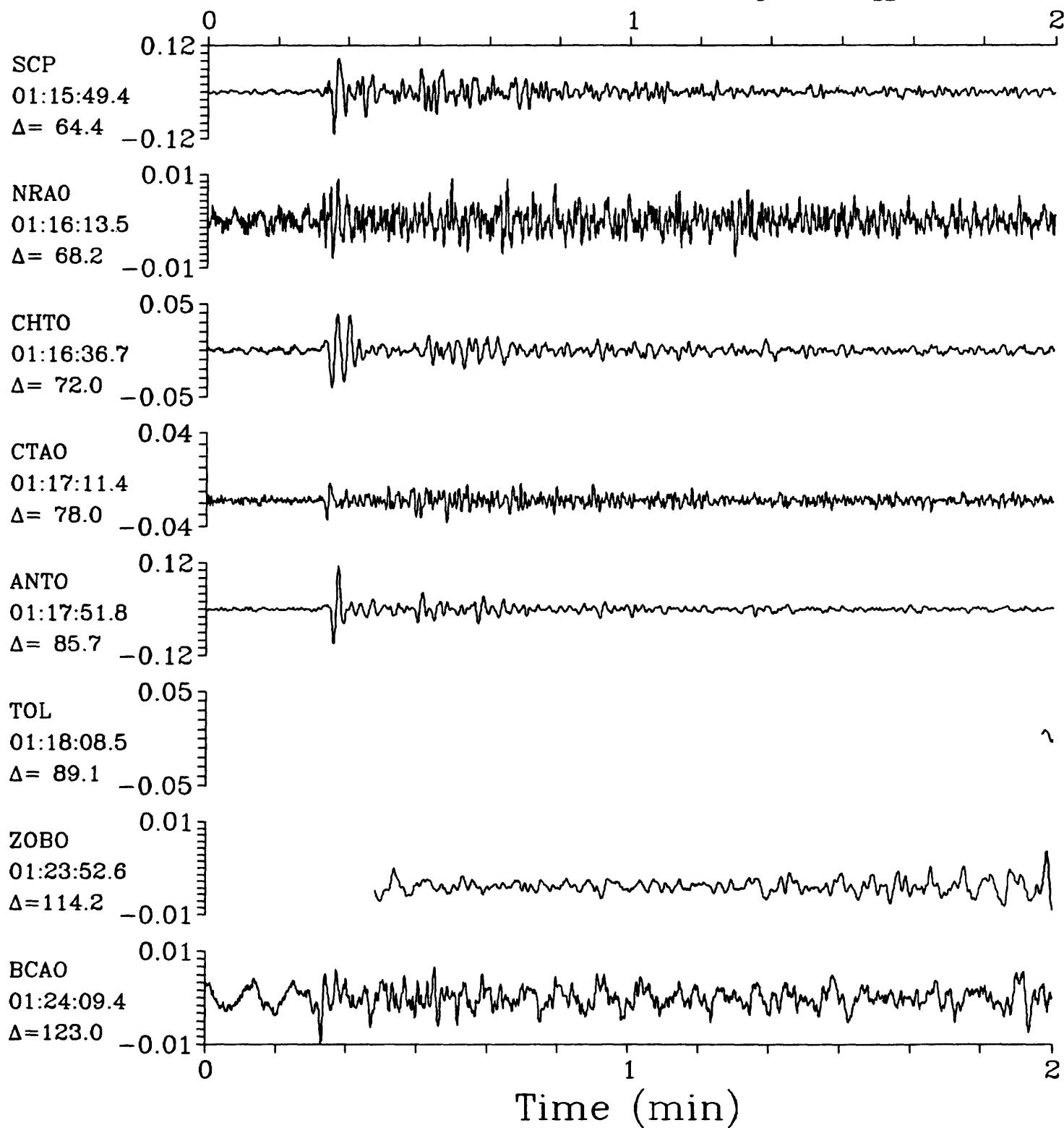
SPZ

Andreanof Islands, Aleutian Is. h=33.0 $m_b=5.4$ $M_{sz}=5.6$ 

SPZ

09 May 1986 01:05:30.71

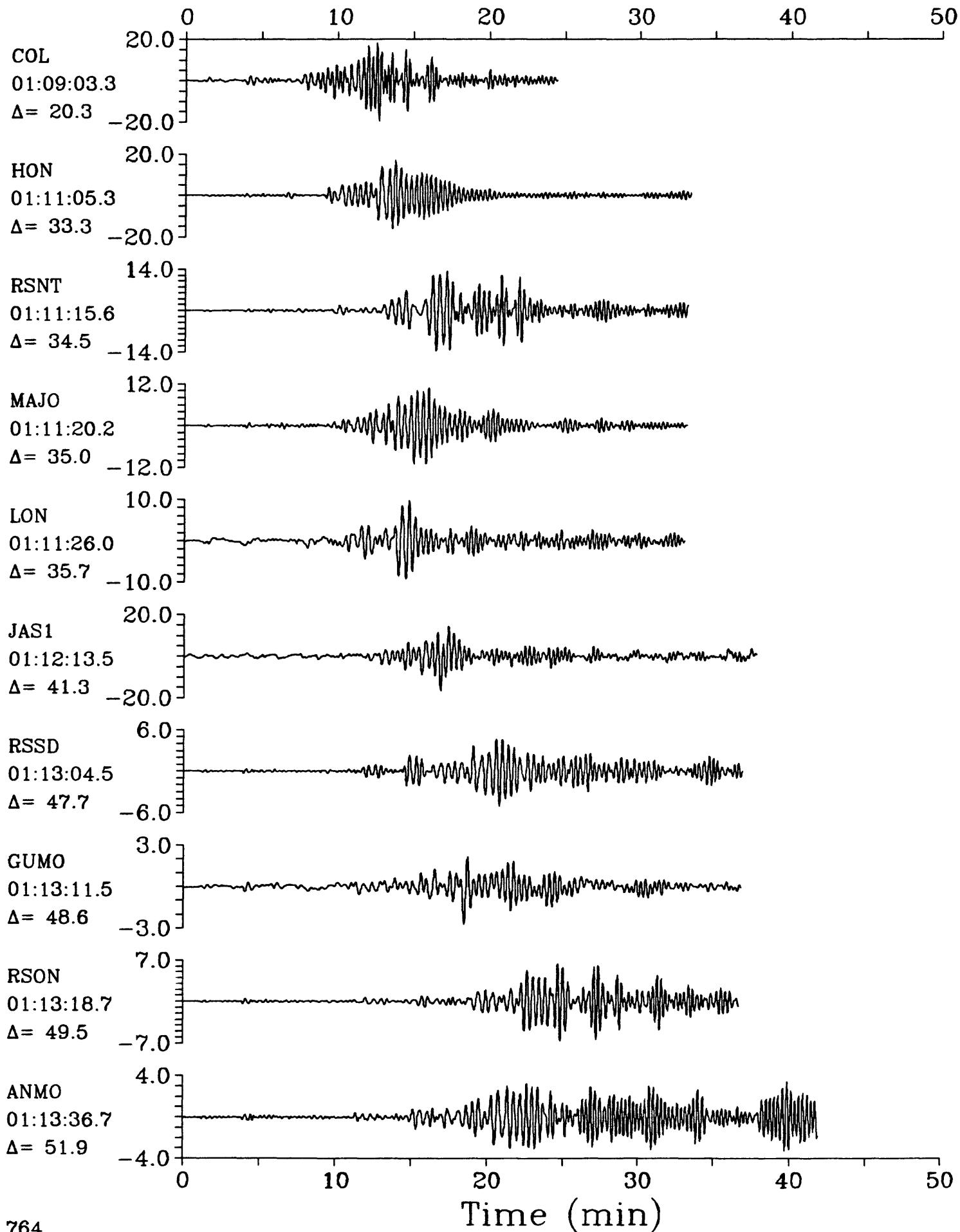
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.4$ $M_{sz}=5.6$ 

LPZ

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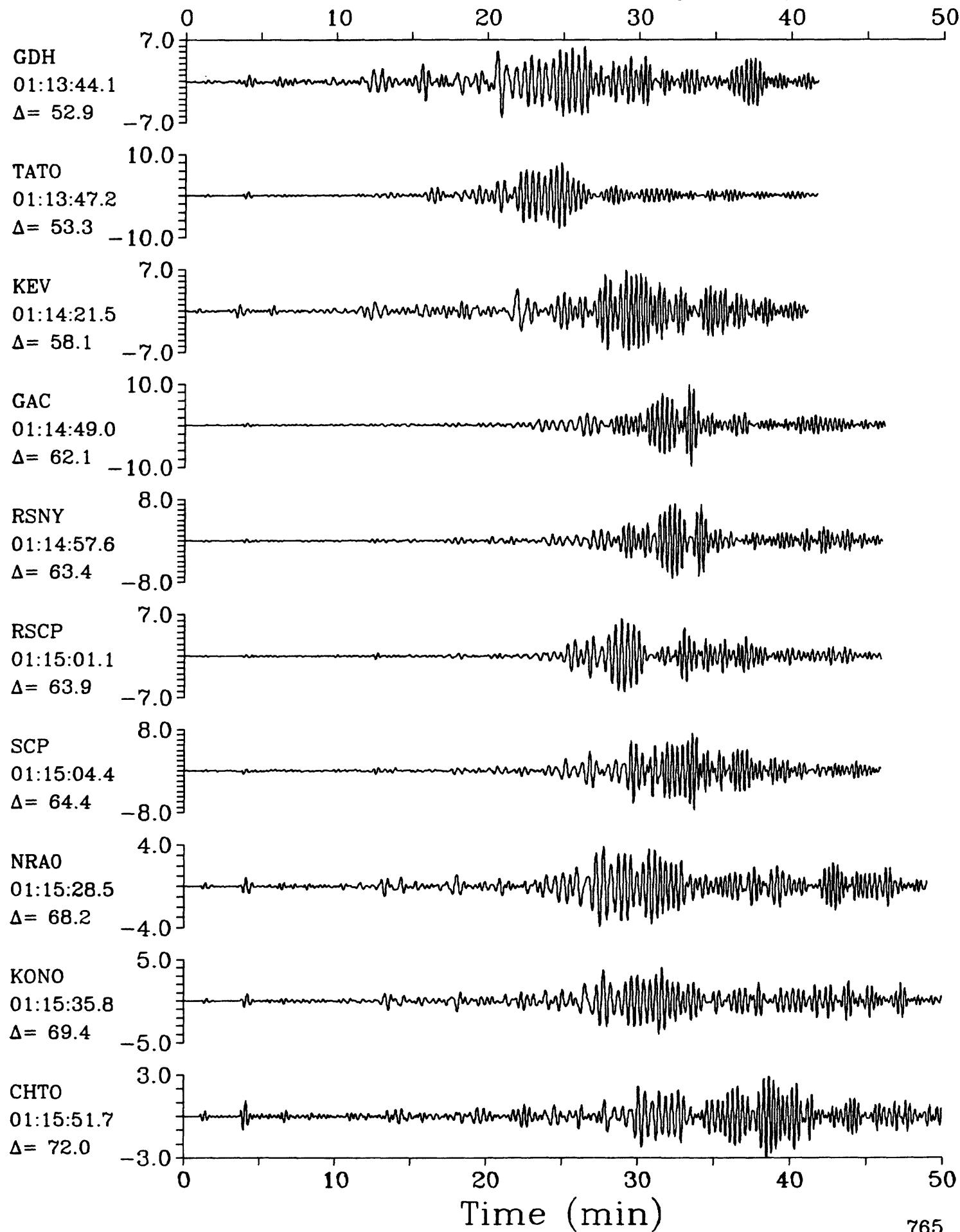
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.4$ $M_{sz}=5.6$ 

LPZ

09 May 1986 01:05:30.71

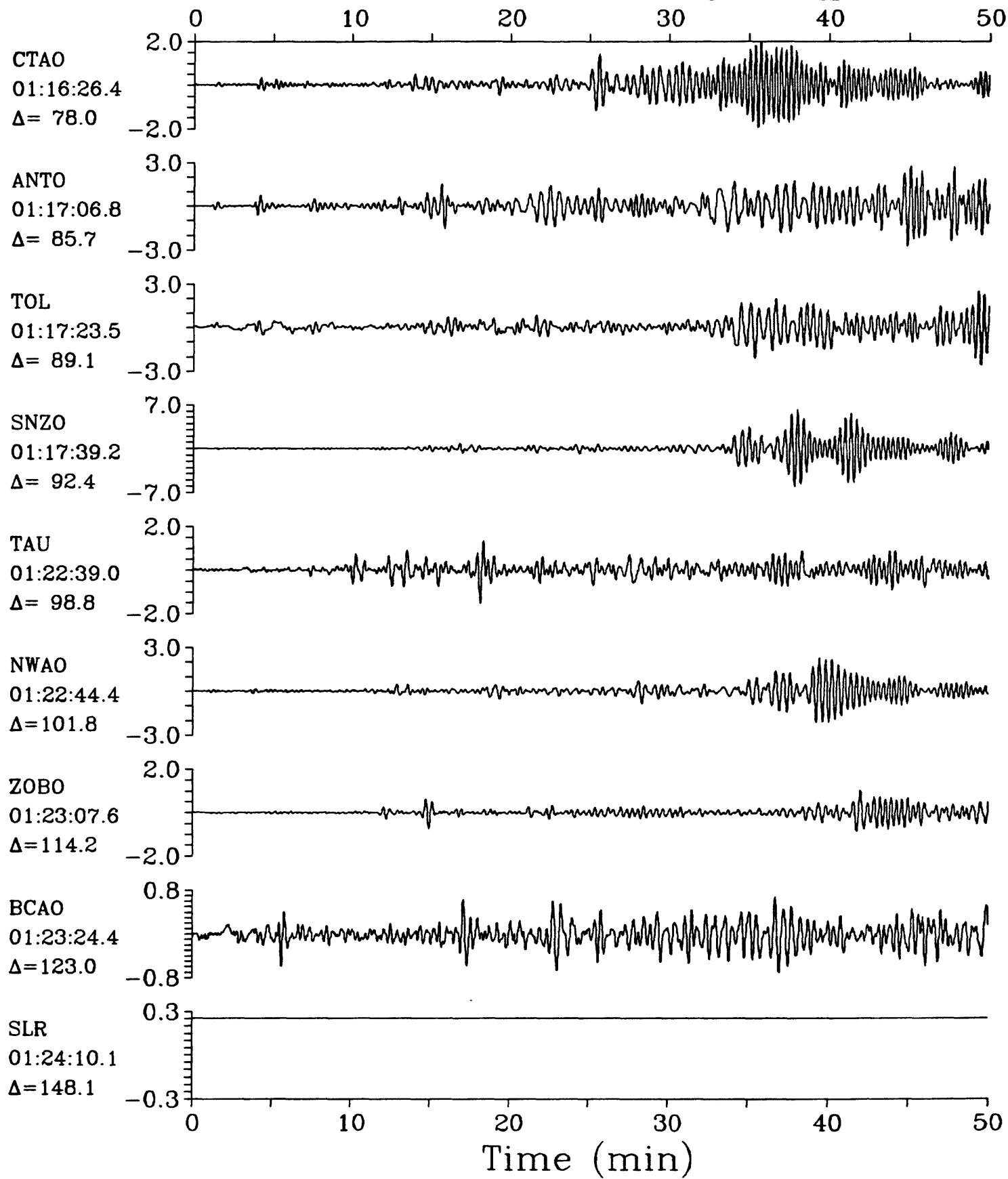
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.4$ $M_{sz}=5.6$ 

LPZ

09 May 1986 01:05:30.71

LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.4$ $M_{sz}=5.6$ 

09 May 1986 01:08:10.05

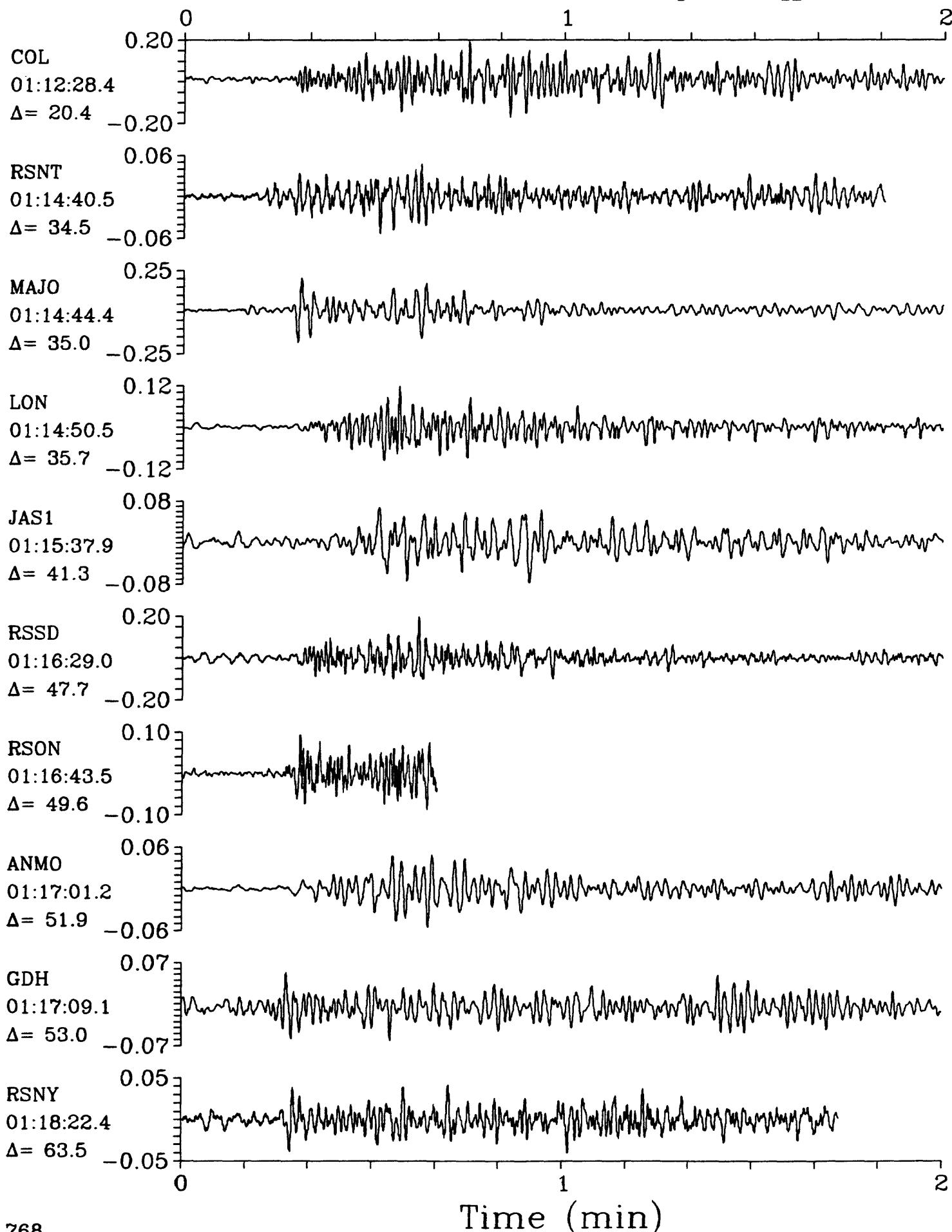
Andreanof Islands, Aleutian Is.



SPZ

09 May 1986 01:08:10.05

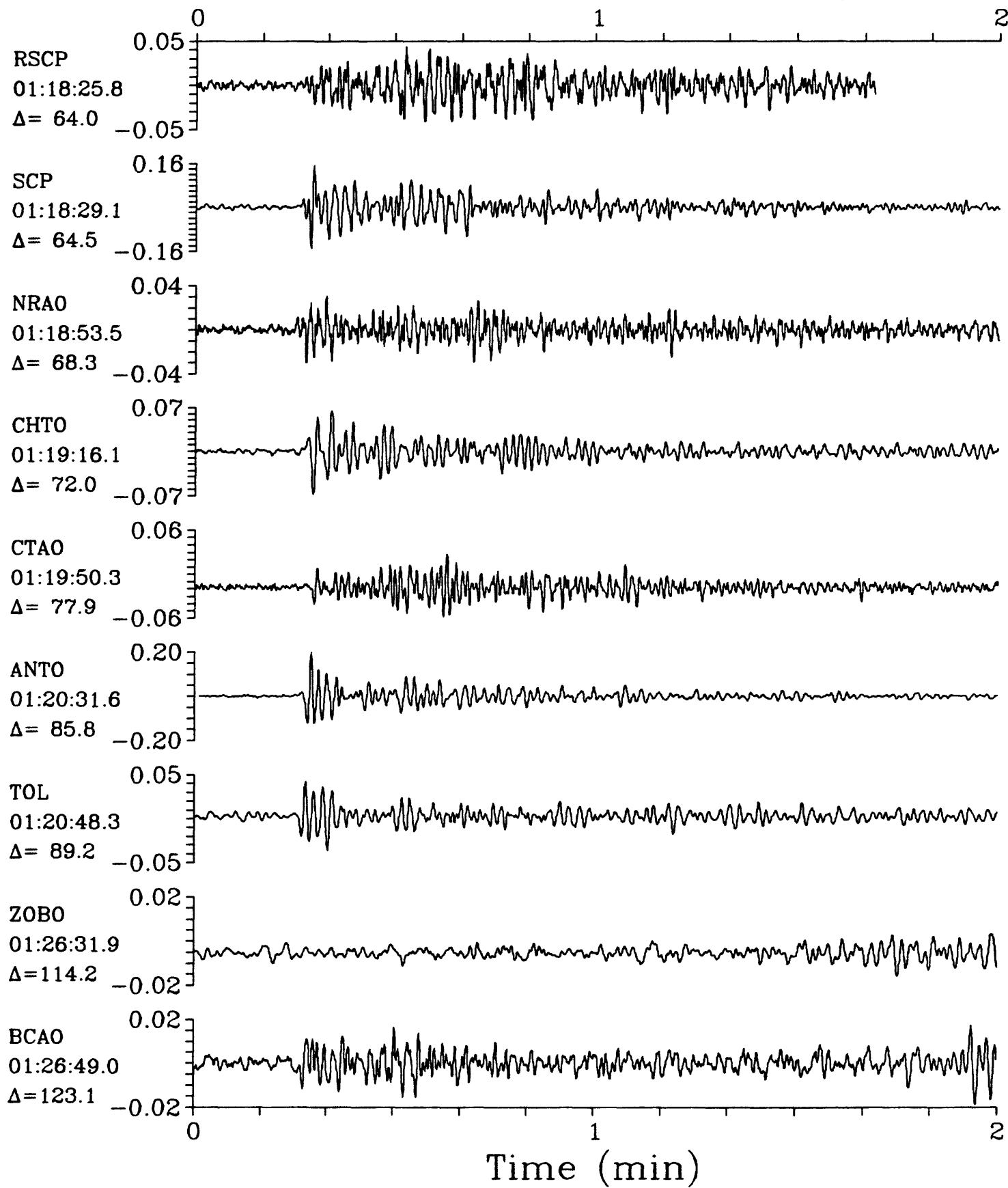
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=5.4$ 

SPZ

09 May 1986 01:08:10.05

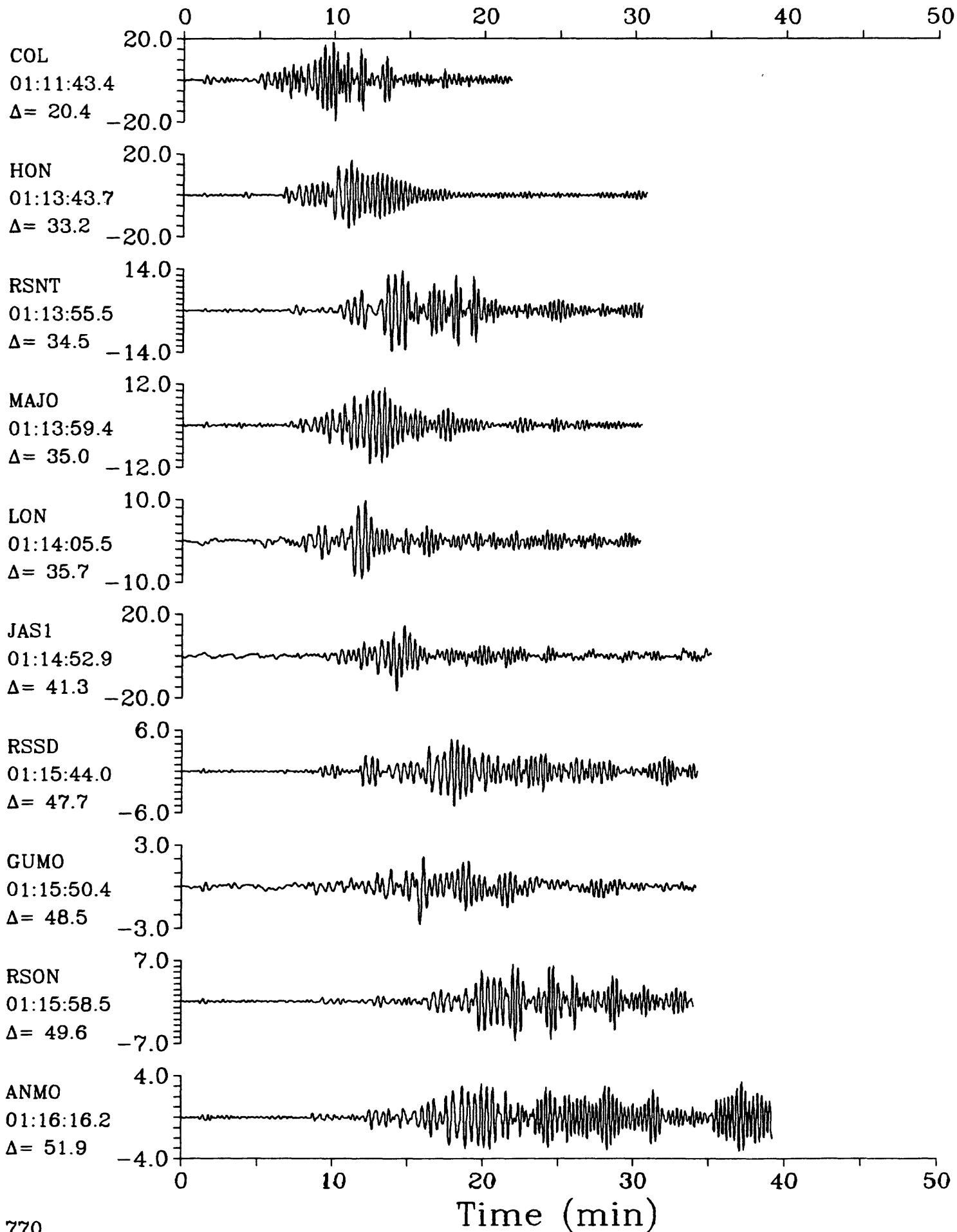
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=5.4$ 

LPZ

09 May 1986 01:08:10.05

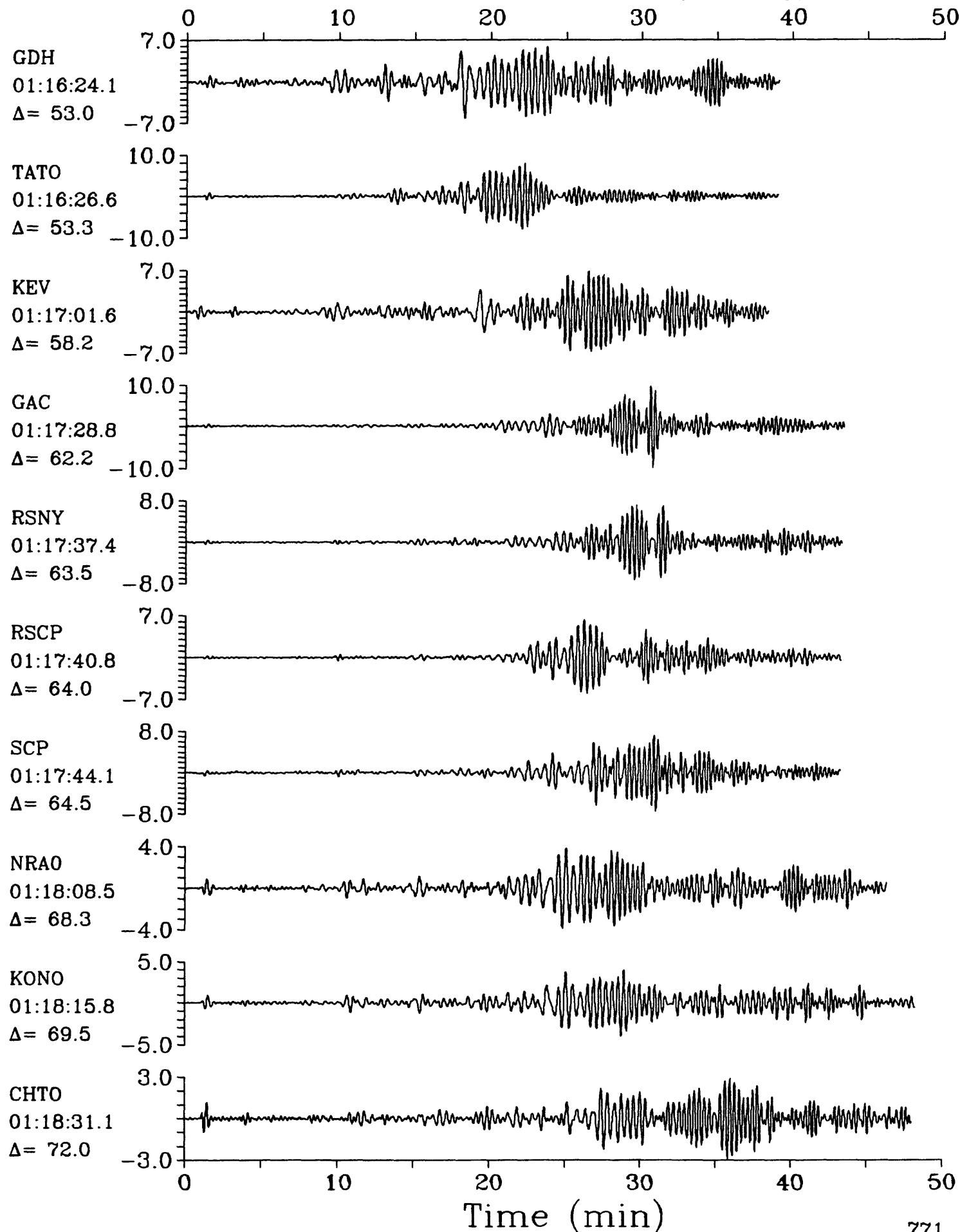
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=5.4$ 

LPZ

09 May 1986 01:08:10.05

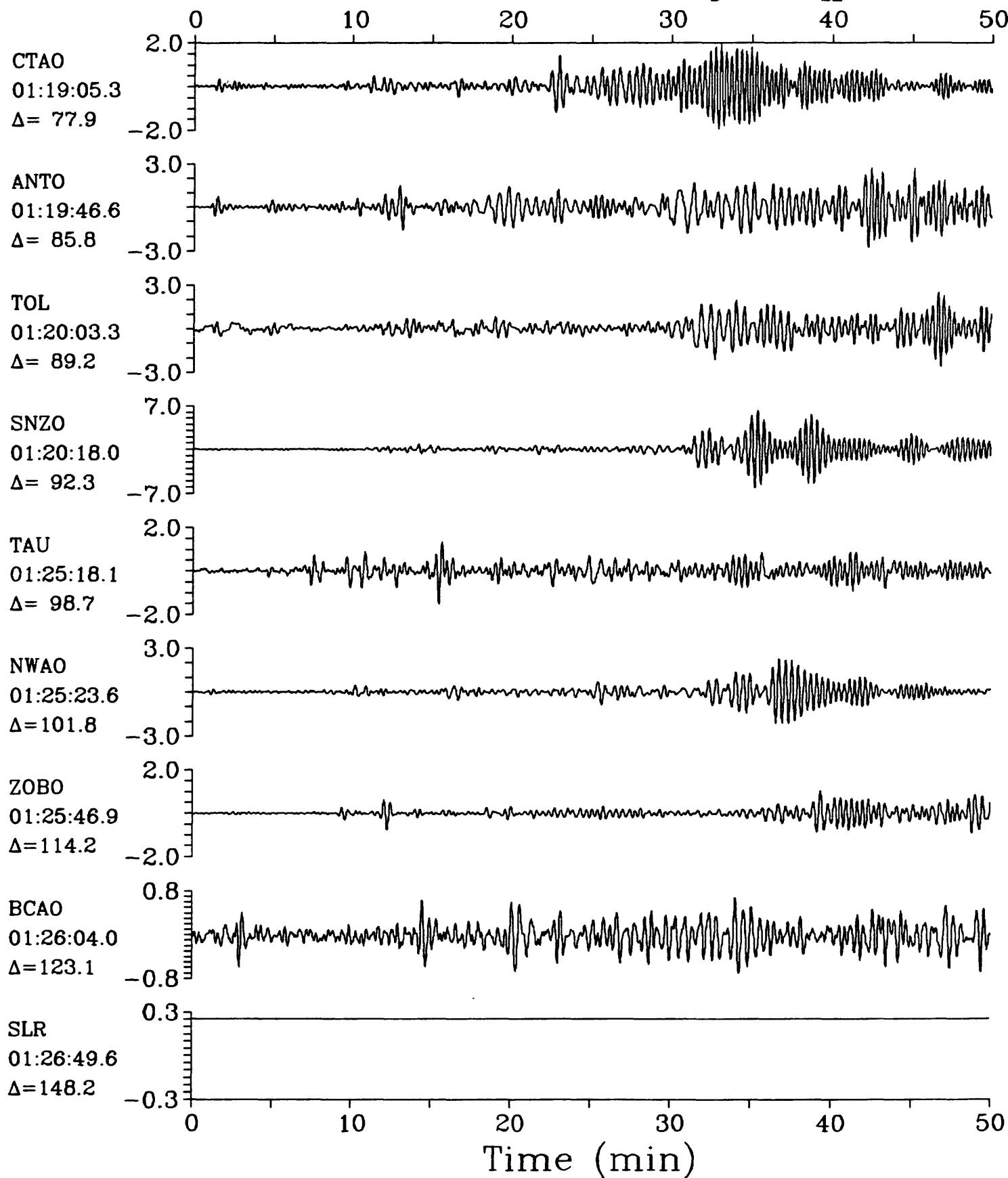
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=5.4$ 

LPZ

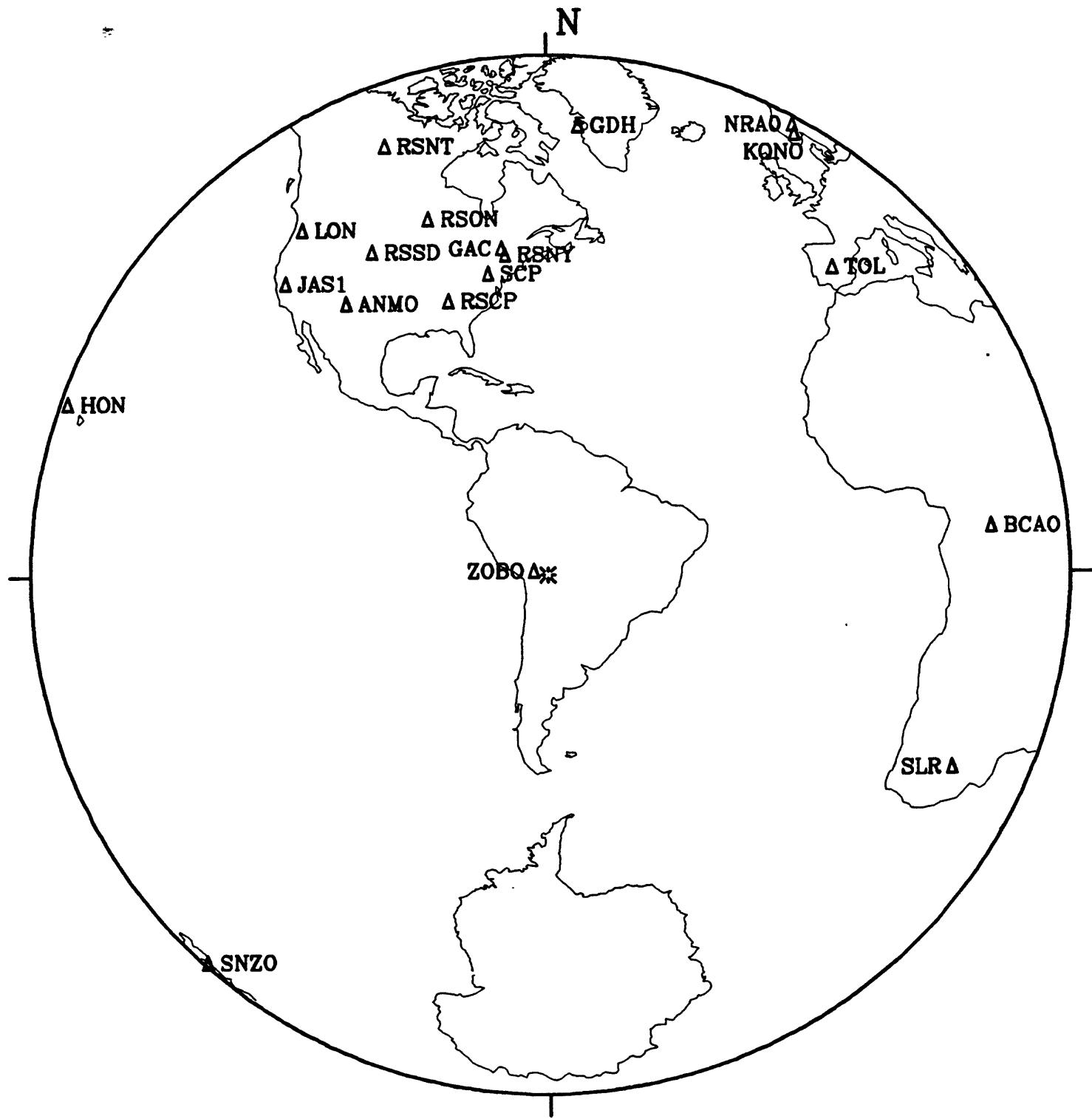
09 May 1986 01:08:10.05

LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=5.4$ 

09 May 1986 16:23:51.21

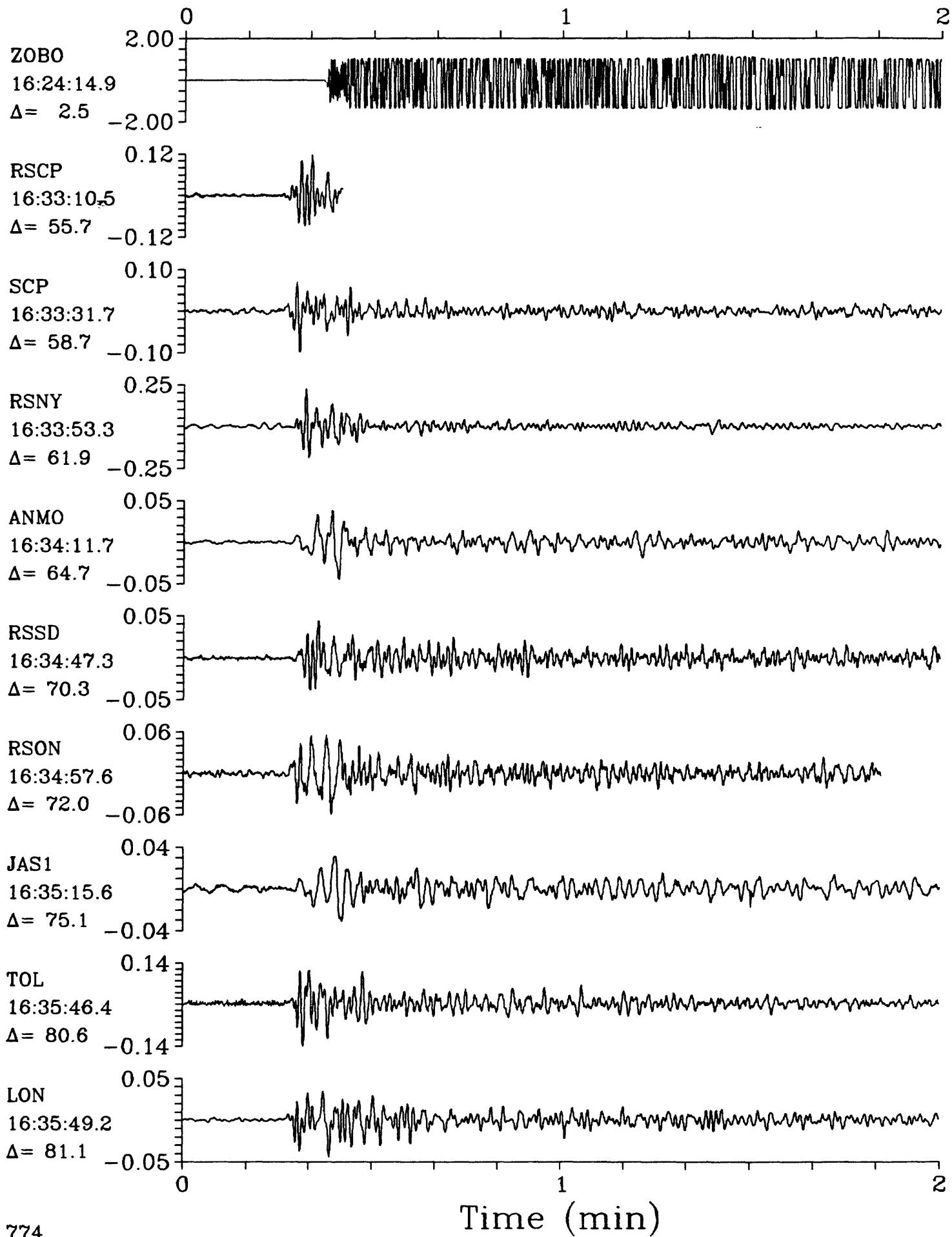
Bolivia



SPZ

09 May 1986 16:23:51.21
Bolivia $h=30.0$ $m_b=5.5$ $M_{SZ}=5.5$

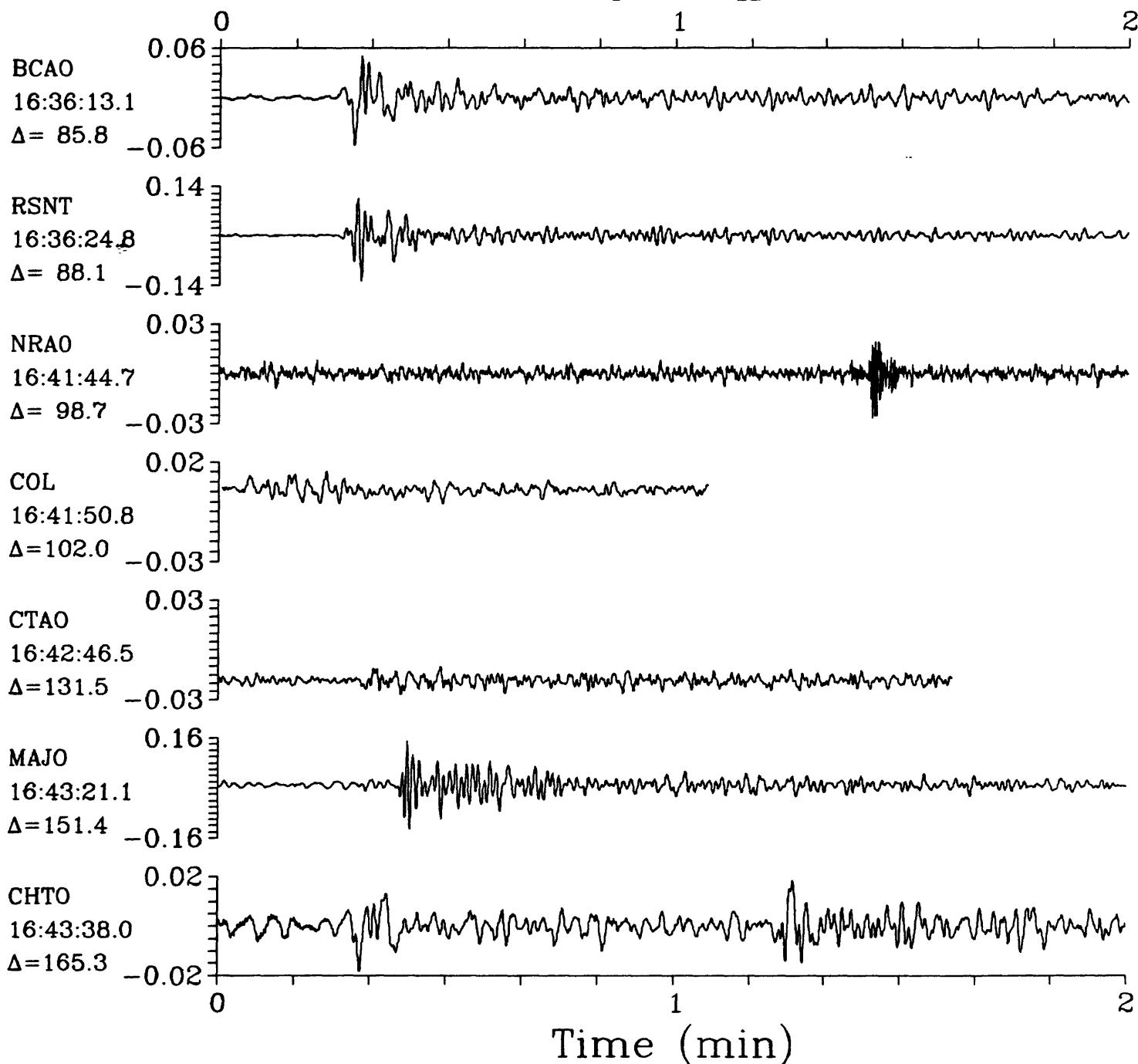
SPZ



SPZ

09 May 1986 16:23:51.21
Bolivia $h=30.0$ $m_b=5.5$ $M_{SZ}=5.5$

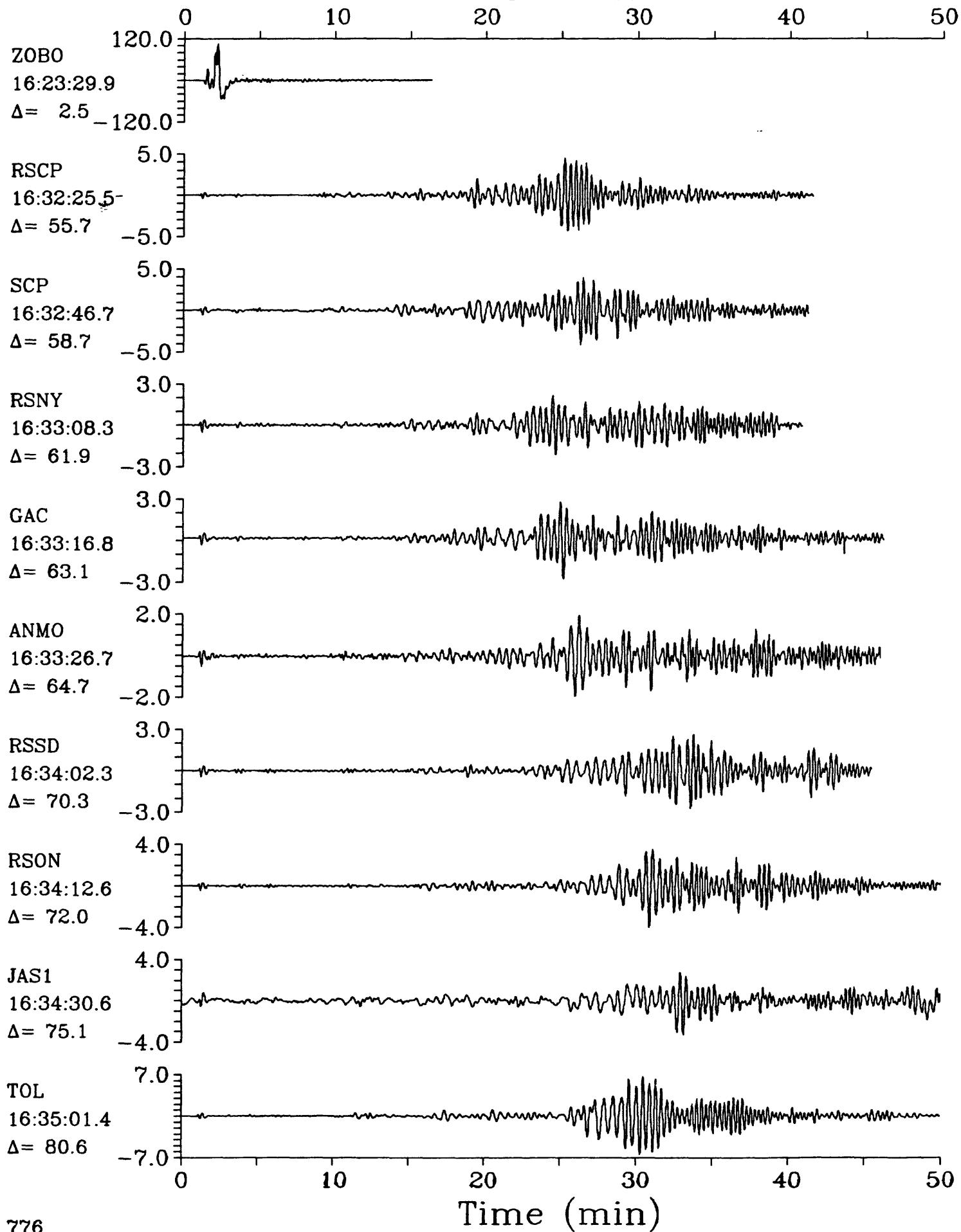
SPZ



LPZ

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Bolivia $h=30.0$ $m_b=5.5$ $M_{SZ}=5.5$

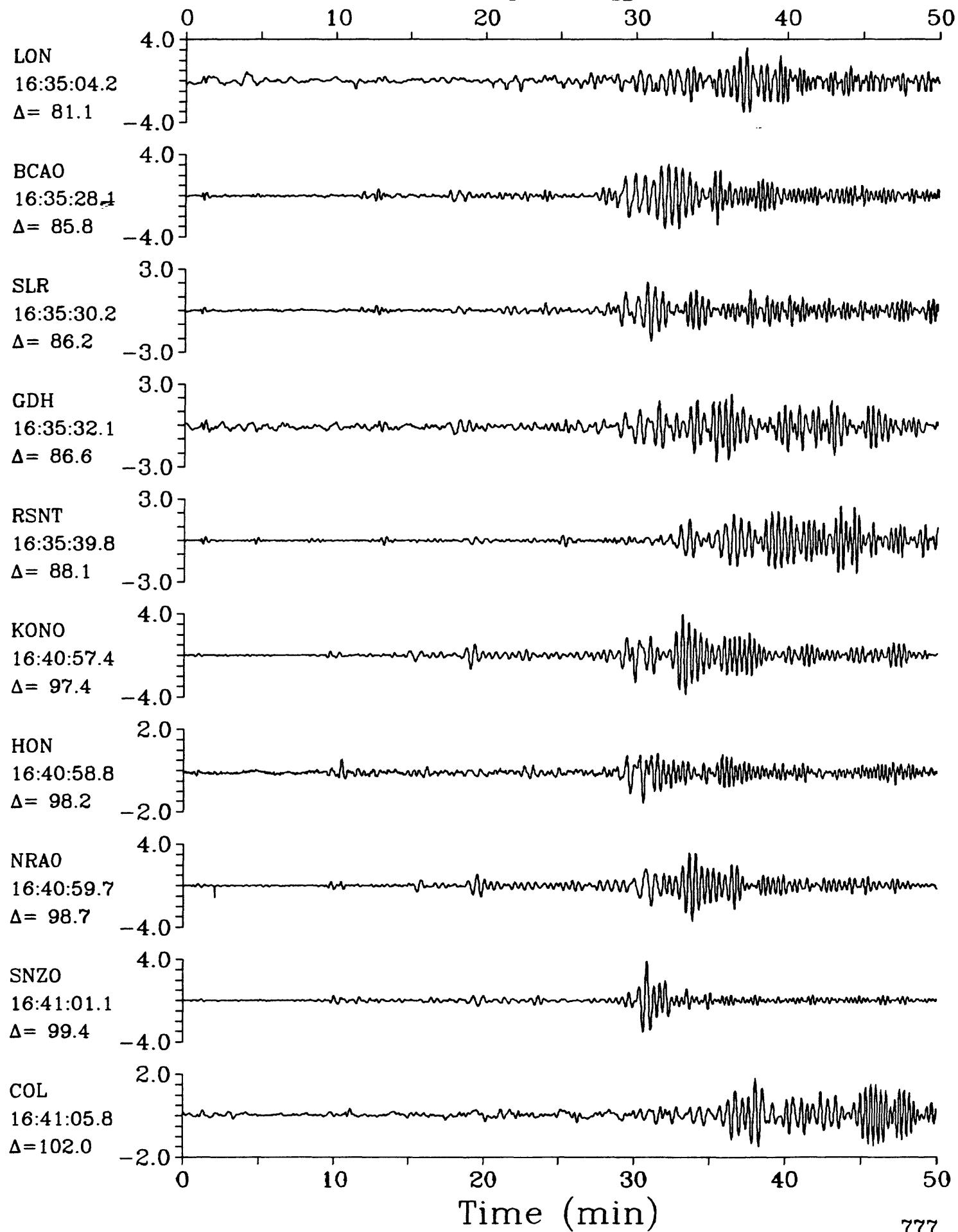
LPZ



LPZ

09 May 1986 16:23:51.21
Bolivia $h=30.0$ $m_b=5.5$ $M_{sz}=5.5$

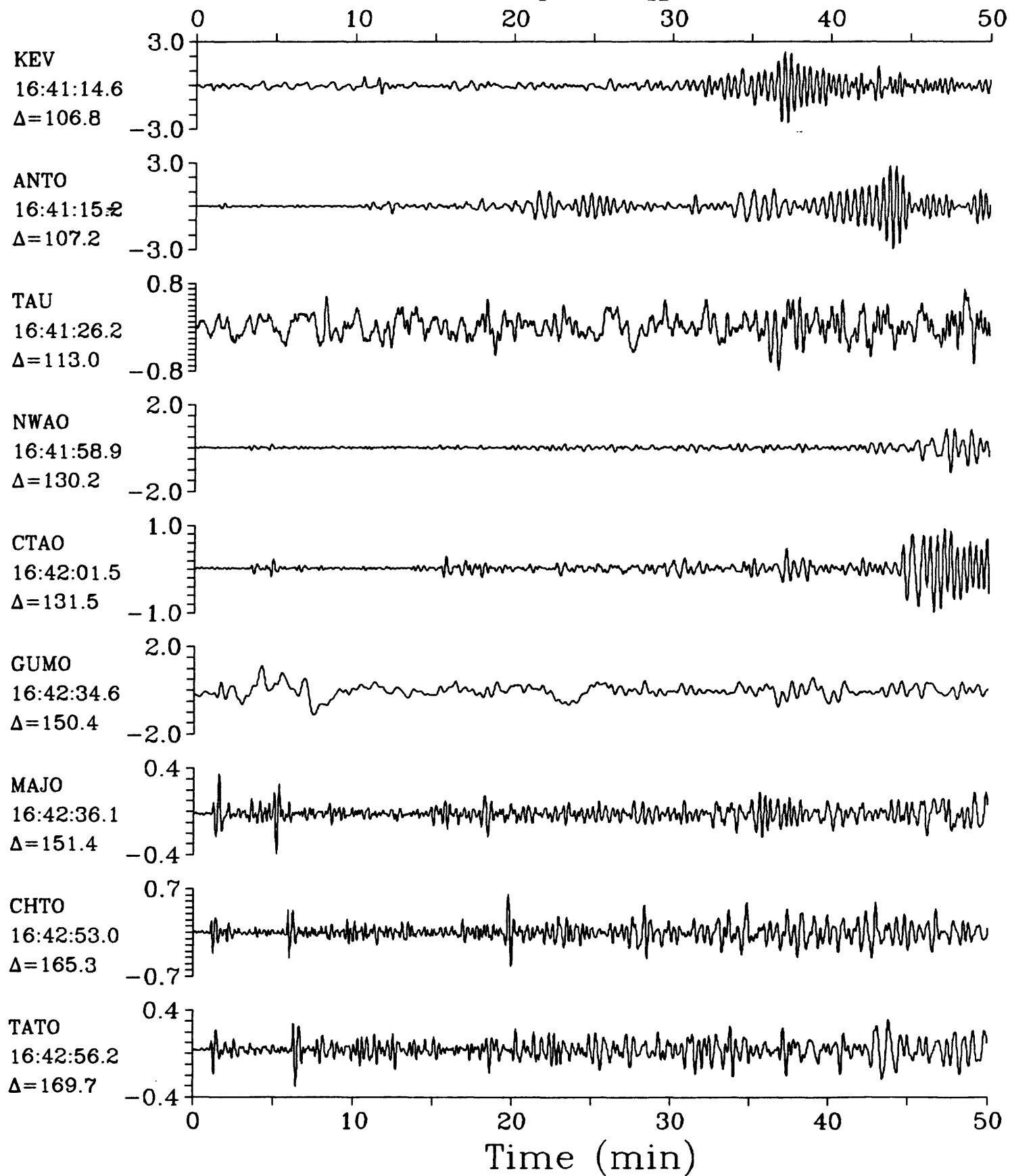
LPZ



LPZ

09 May 1986 16:23:51.21
Bolivia $h=30.0$ $m_b=5.5$ $M_{sz}=5.5$

LPZ



09 May 1986 19:04:28.80

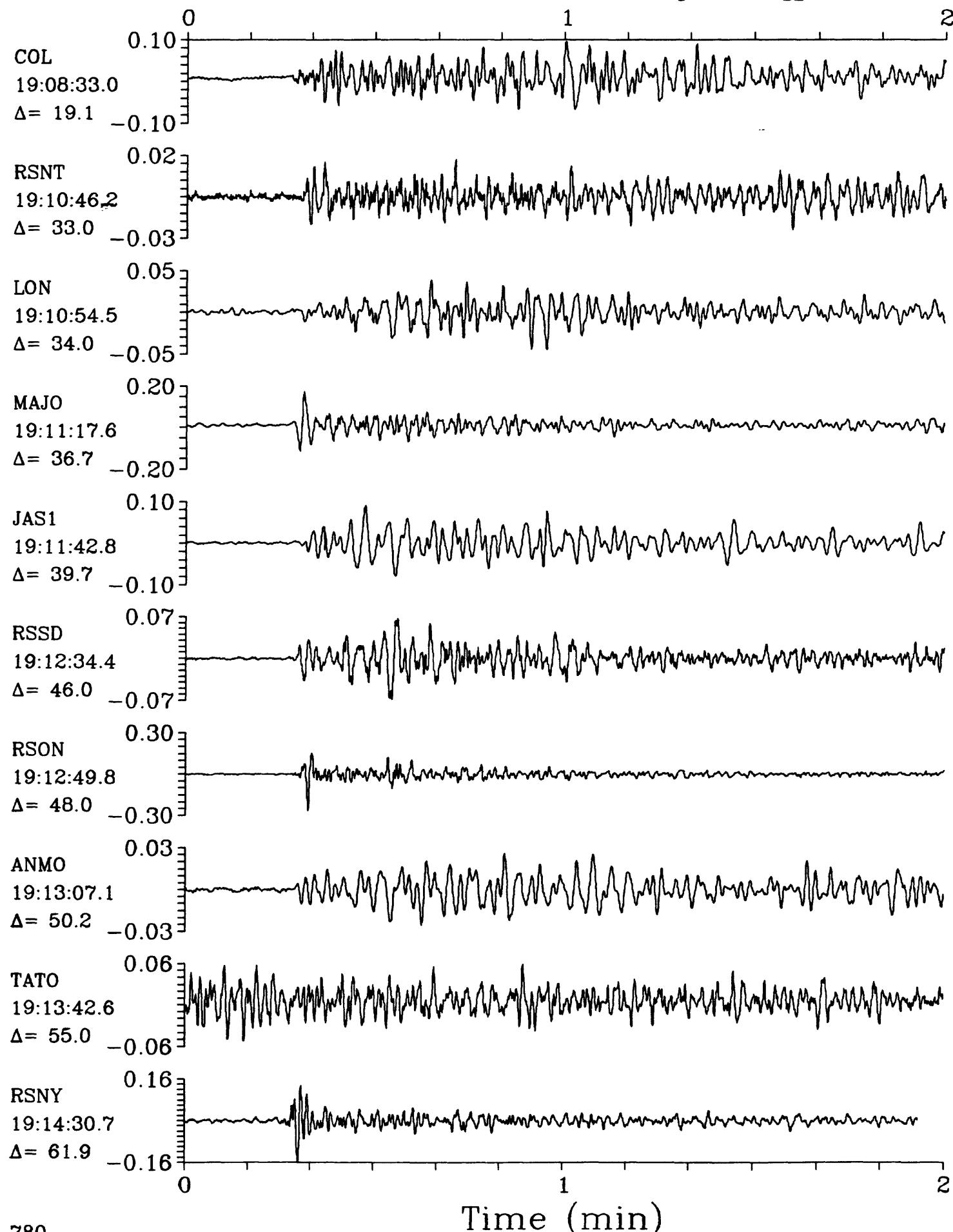
Andreanof Islands, Aleutian Is.



SPZ

09 May 1986 19:04:28.80

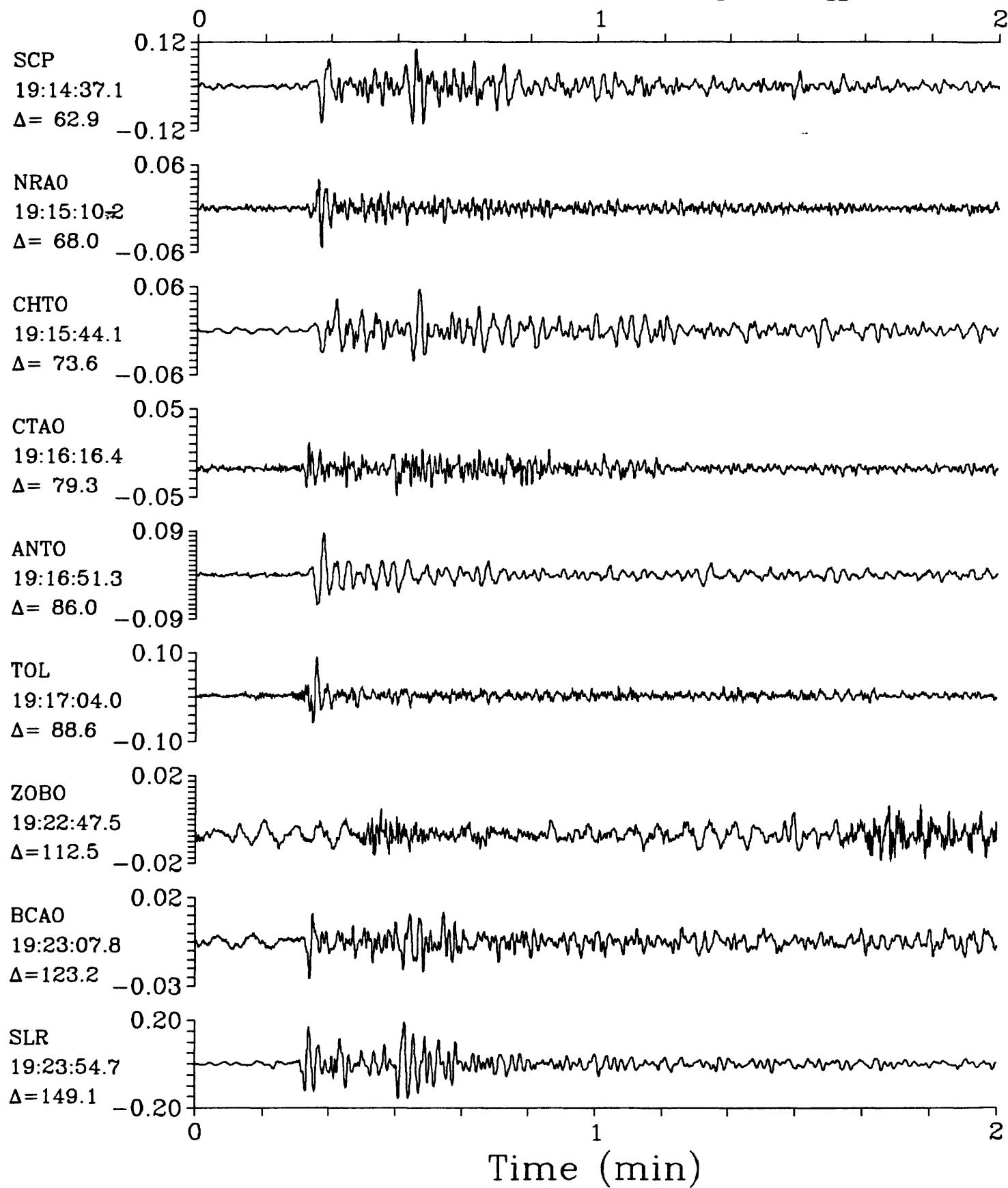
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=5.6$ 

SPZ

09 May 1986 19:04:28.80

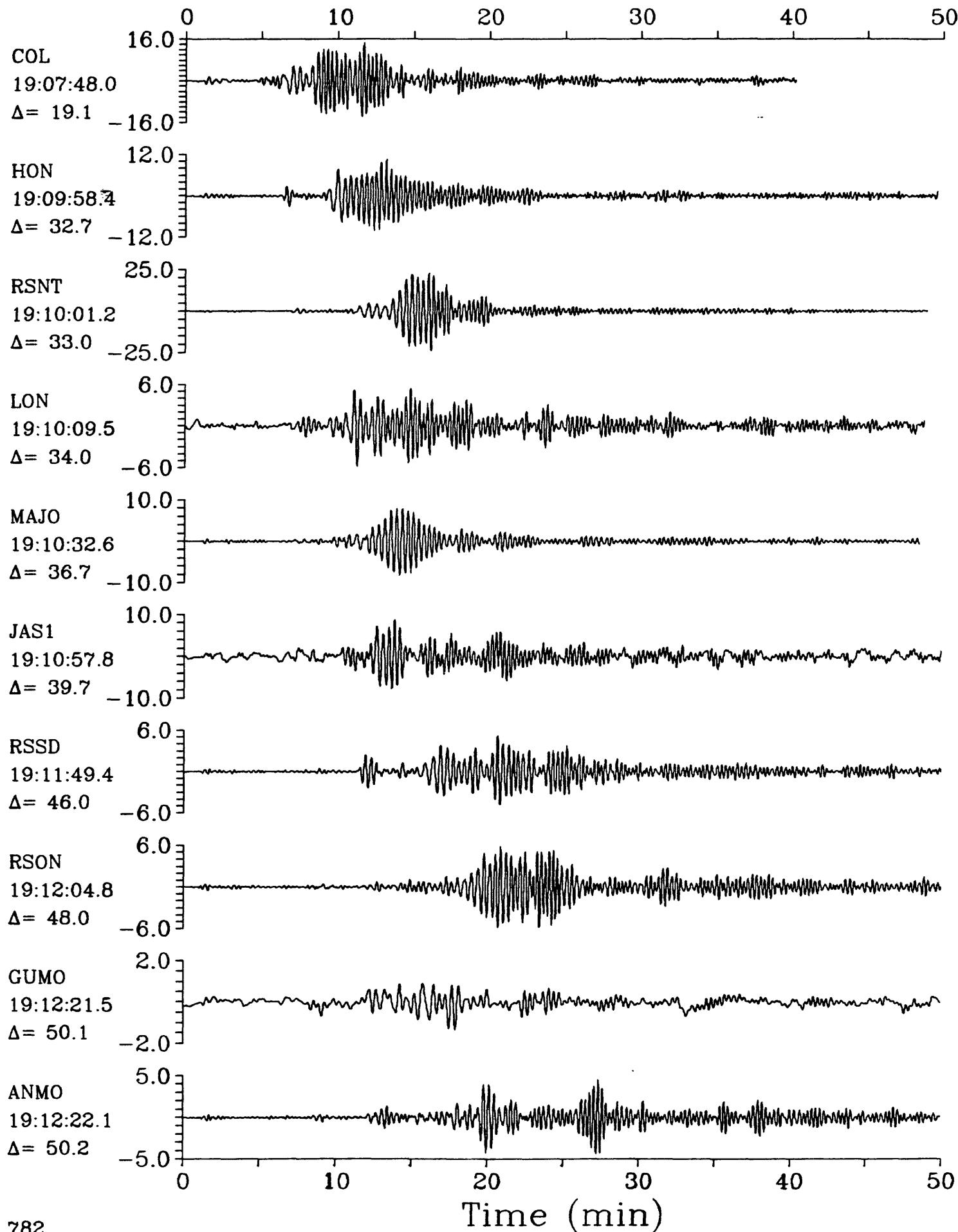
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=5.6$ 

LPZ

09 May 1986 19:04:28.80

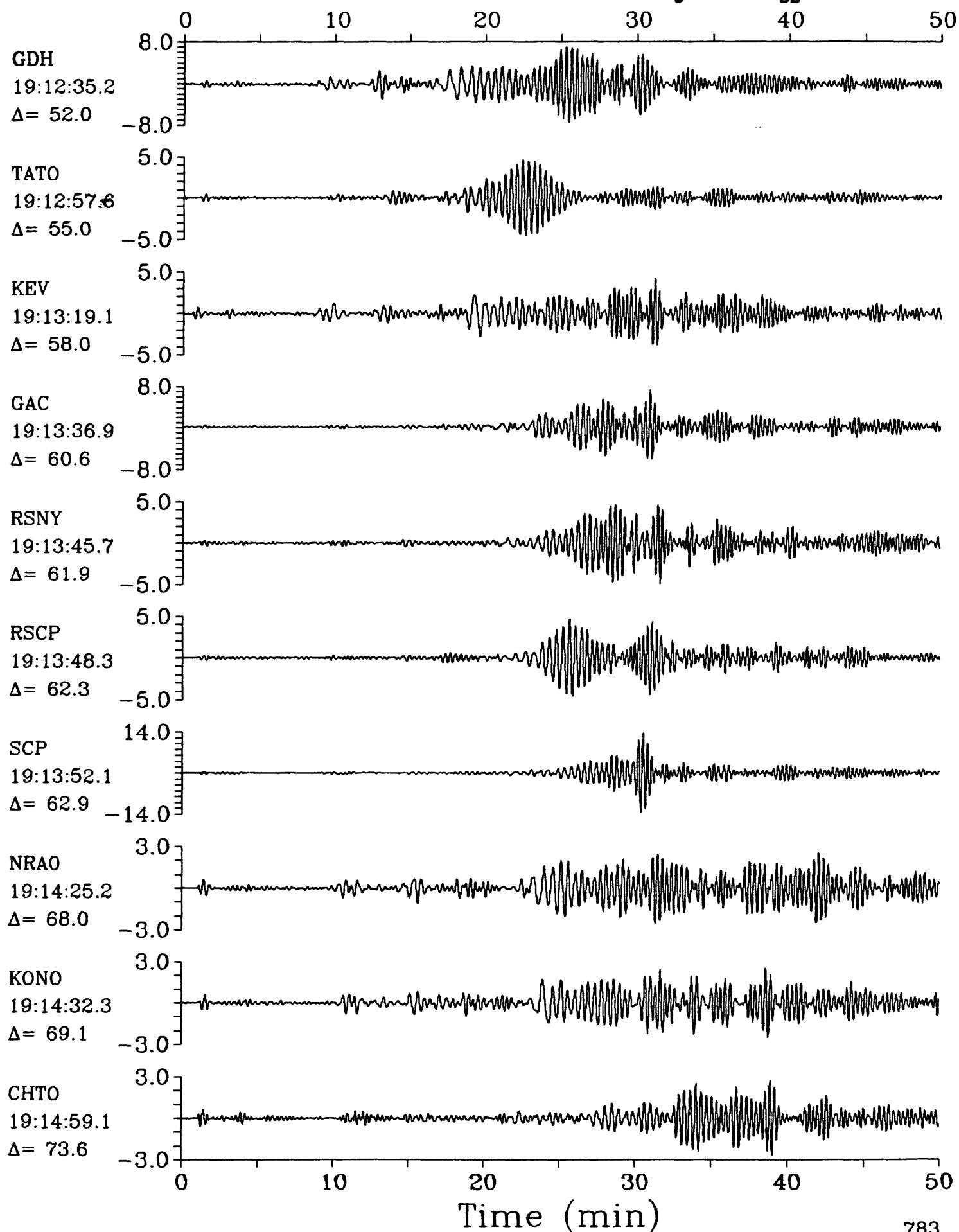
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{SZ}=5.6$ 

LPZ

09 May 1986 19:04:28.80

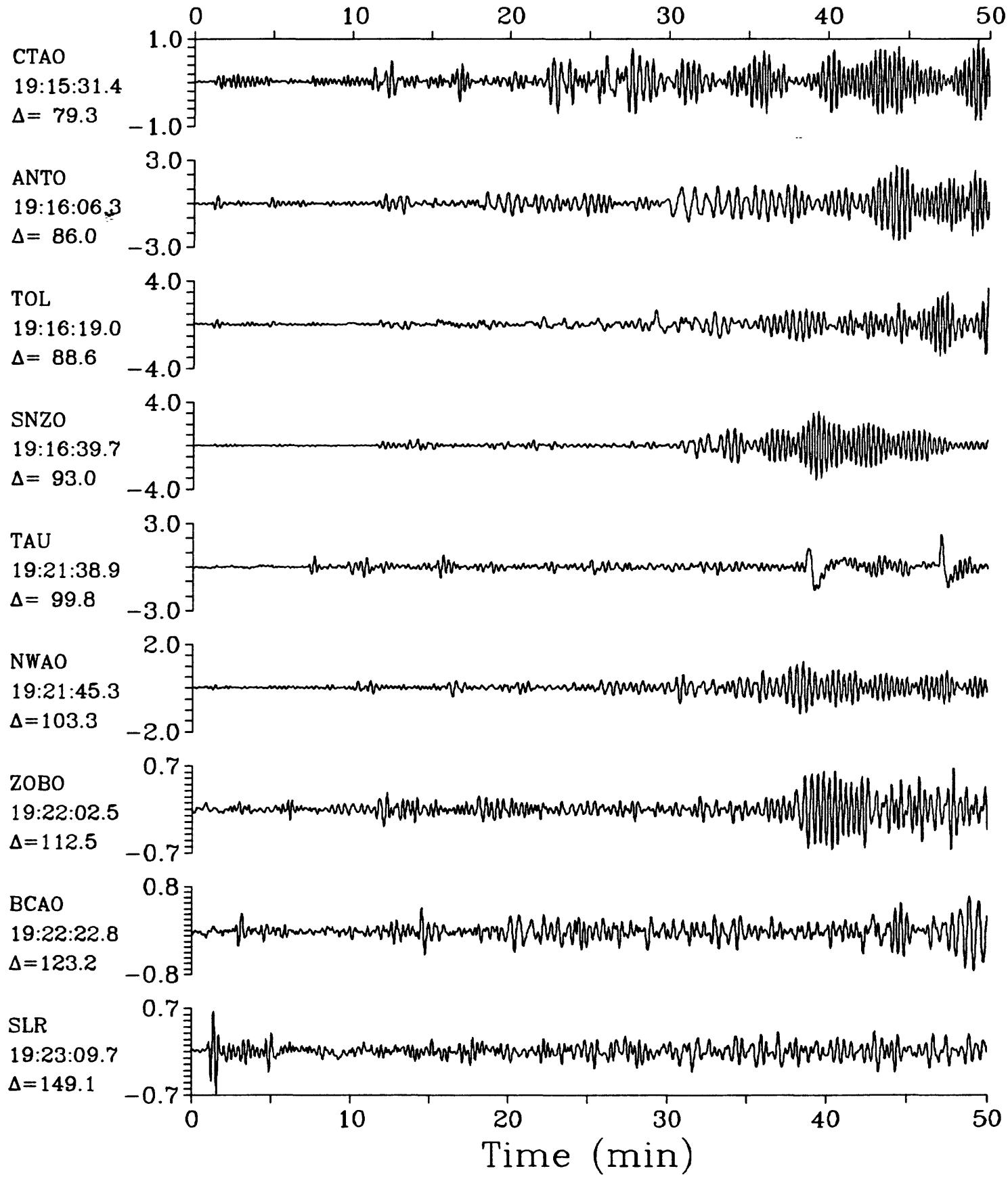
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=5.6$ 

LPZ

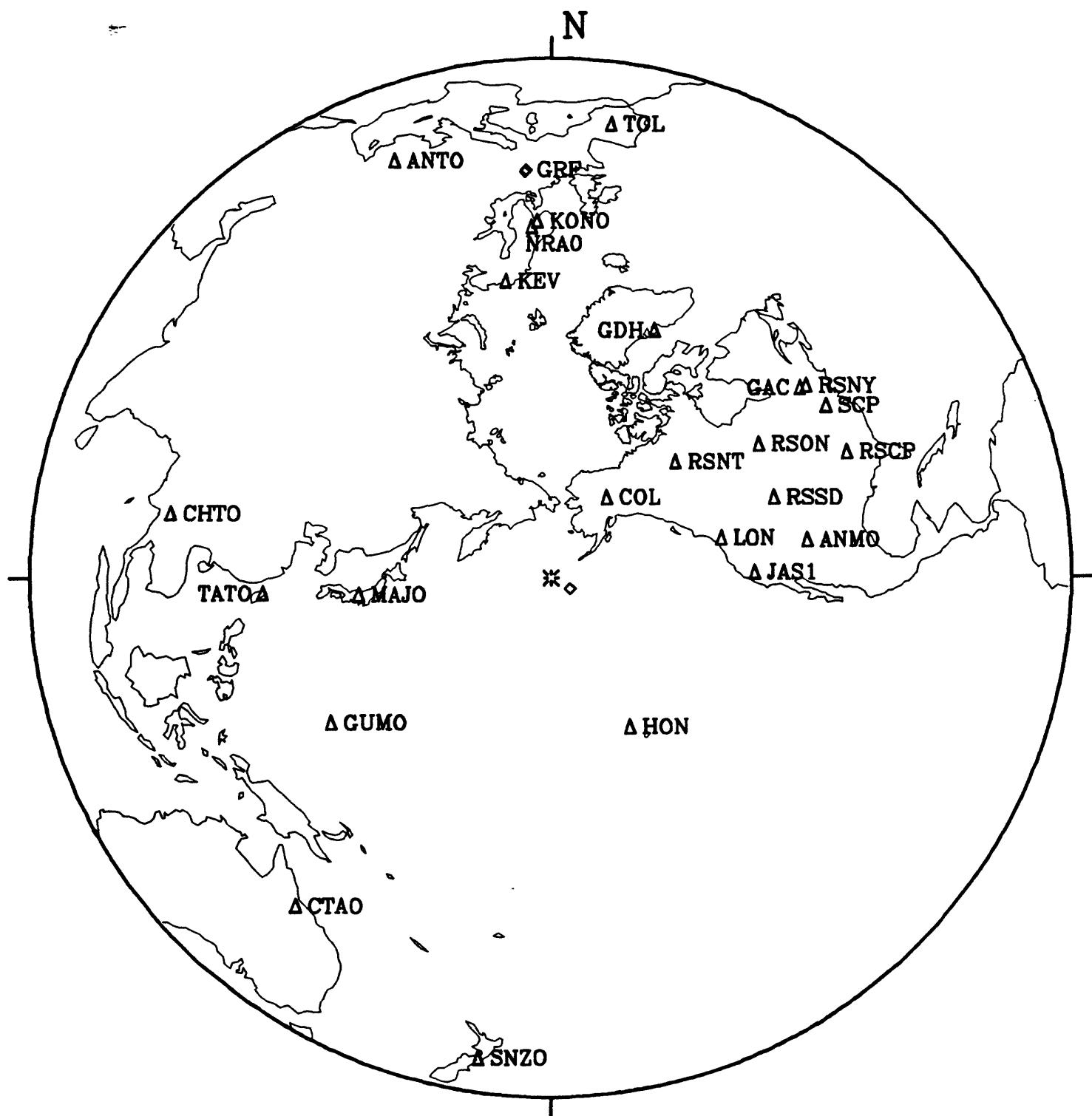
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LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{Sz}=5.6$ 

09 May 1986 19:24:42.30

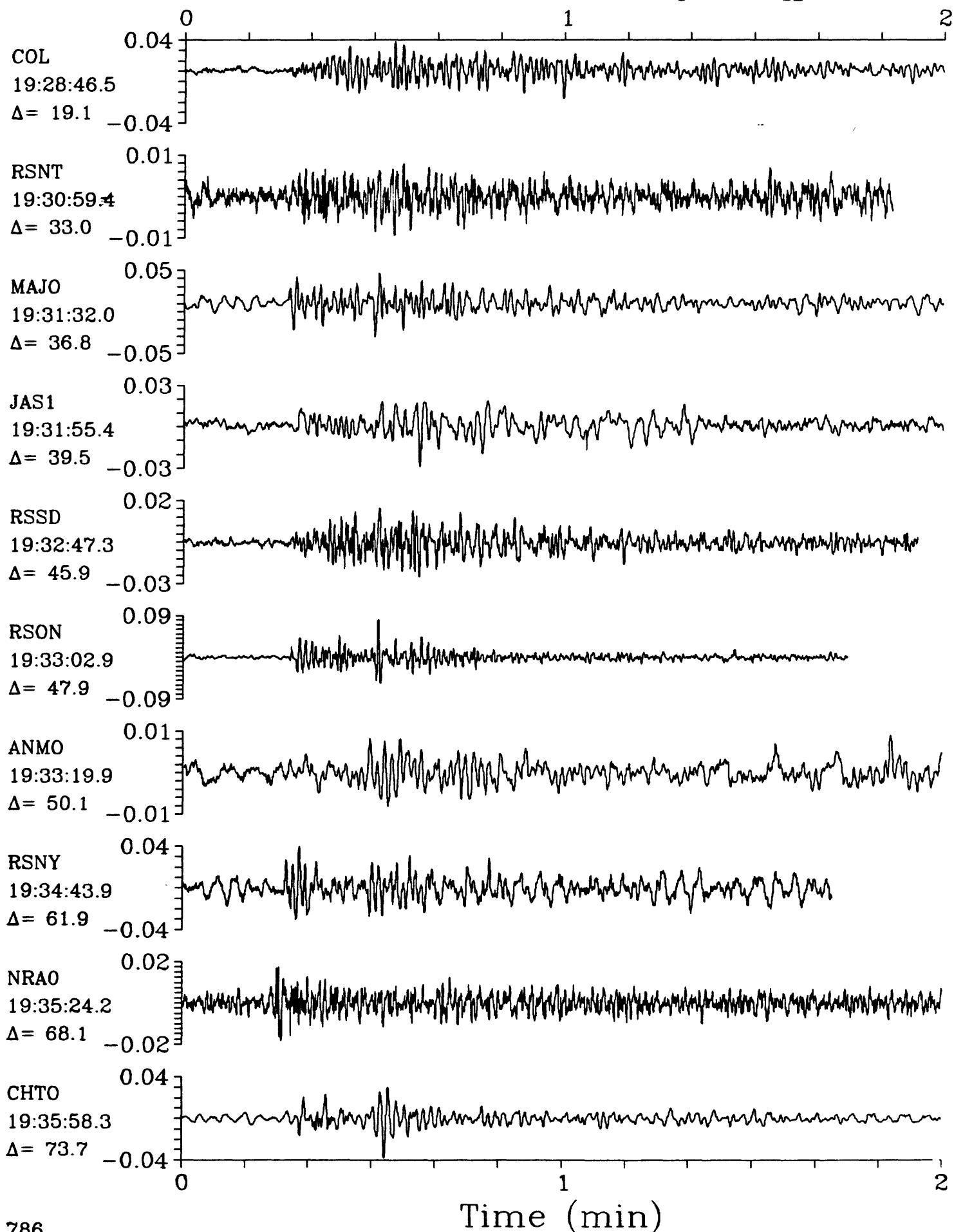
Andreanof Islands, Aleutian Is.



SPZ

09 May 1986 19:24:42.30

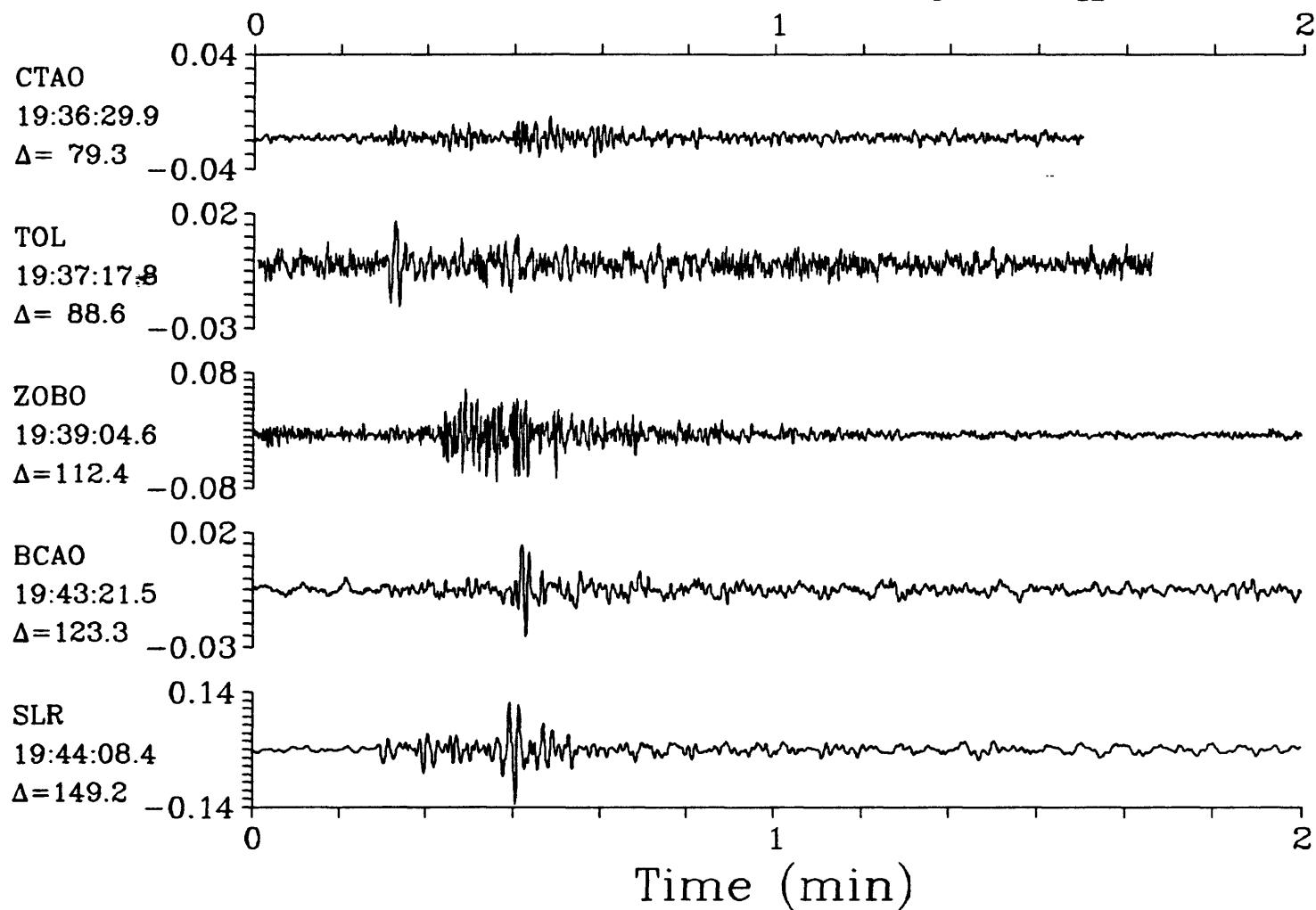
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.3$ $M_{sz}=5.8$ 

SPZ

09 May 1986 19:24:42.30

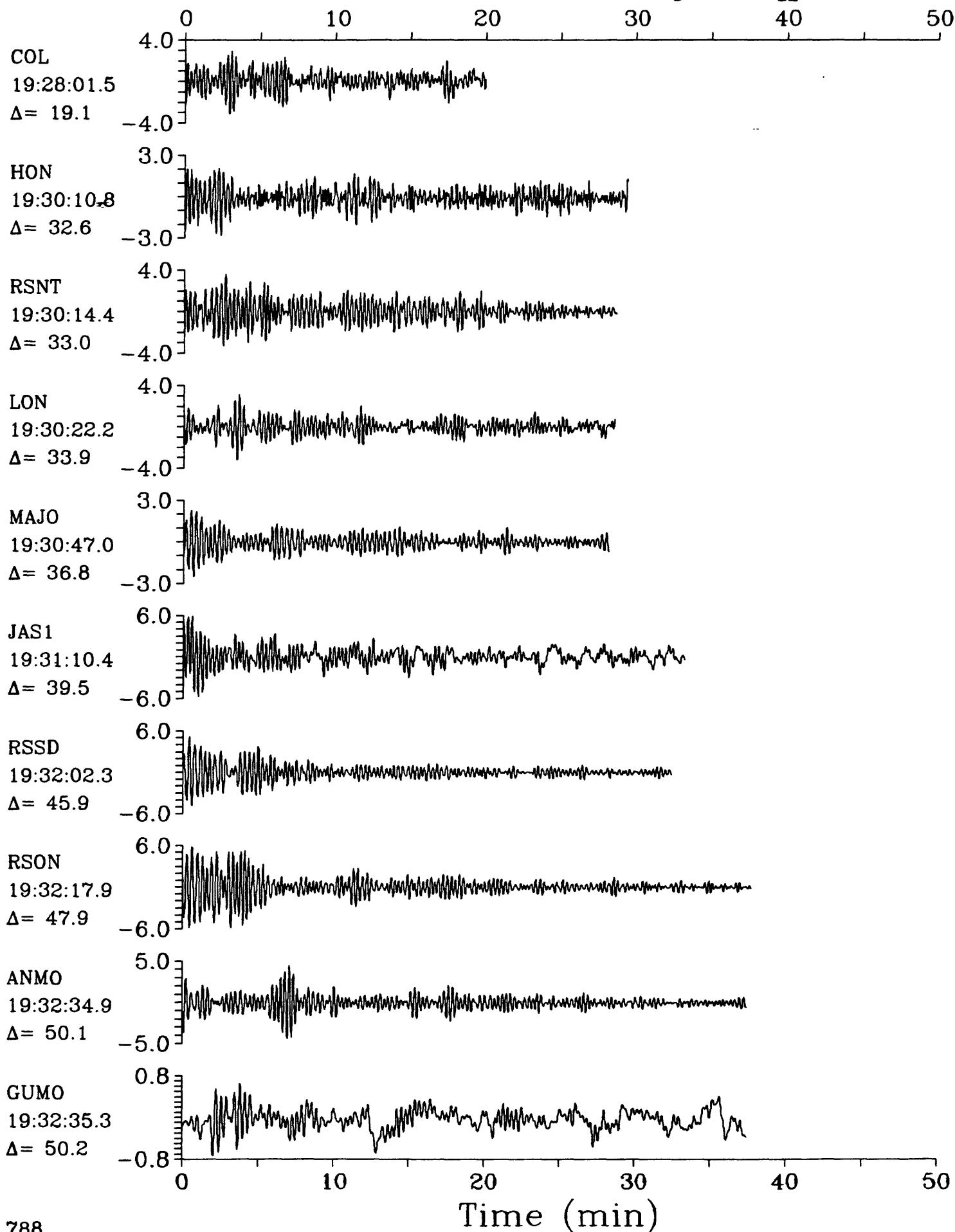
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.3$ $M_{sz}=5.8$ 

LPZ

09 May 1986 19:24:42.30

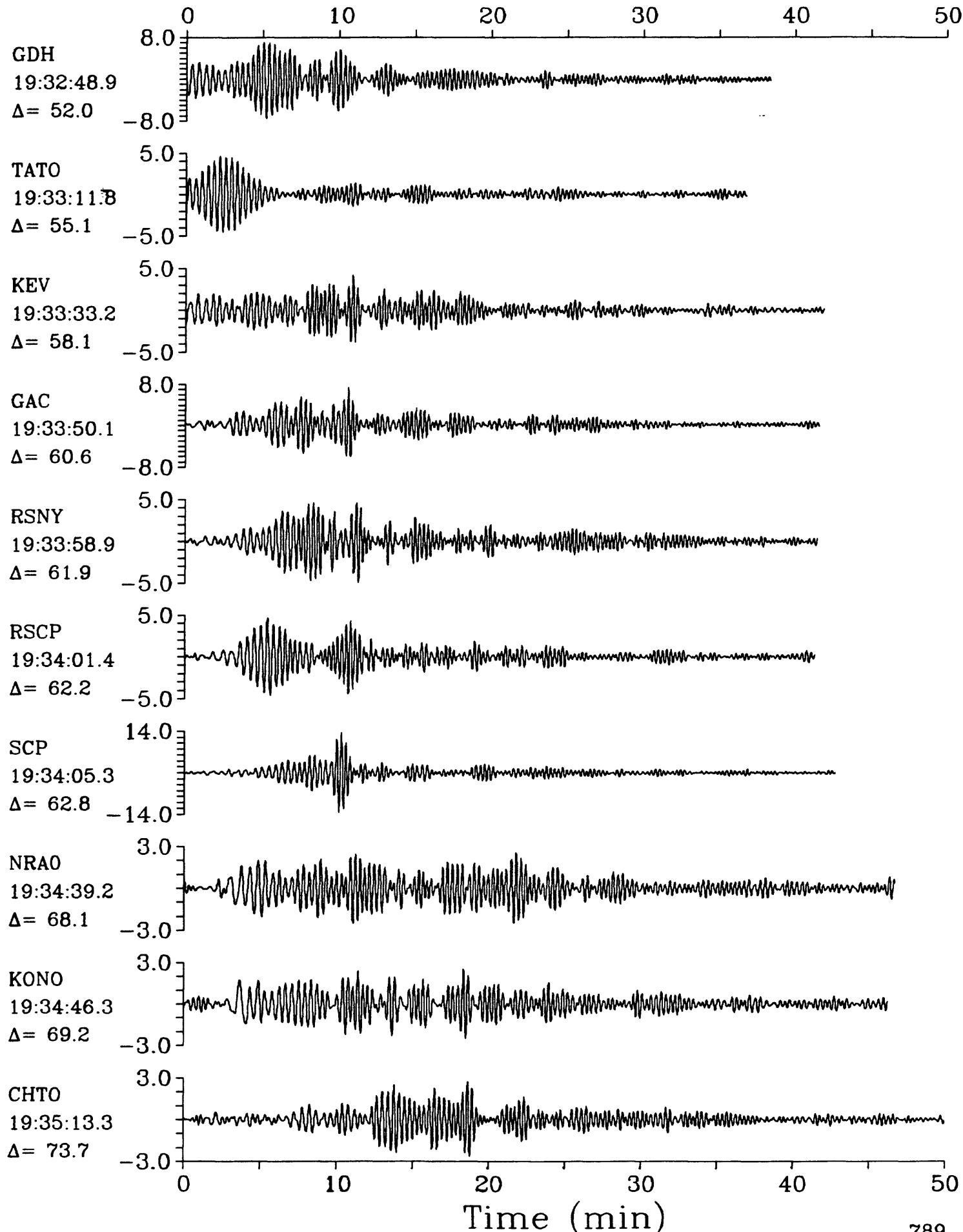
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.3$ $M_{sz}=5.8$ 

LPZ

09 May 1986 19:24:42.30

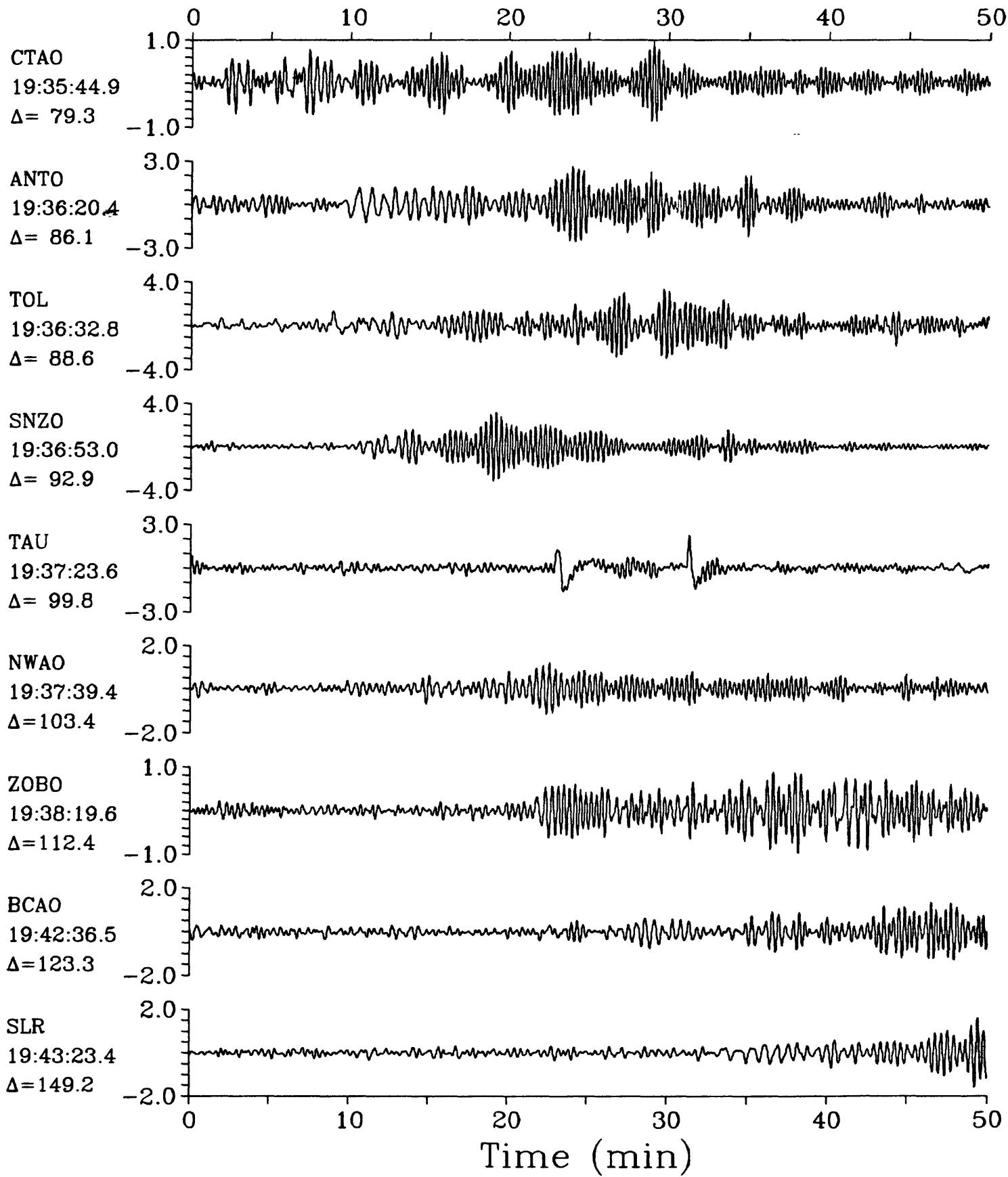
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.3$ $M_{sz}=5.8$ 

LPZ

09 May 1986 19:24:42.30

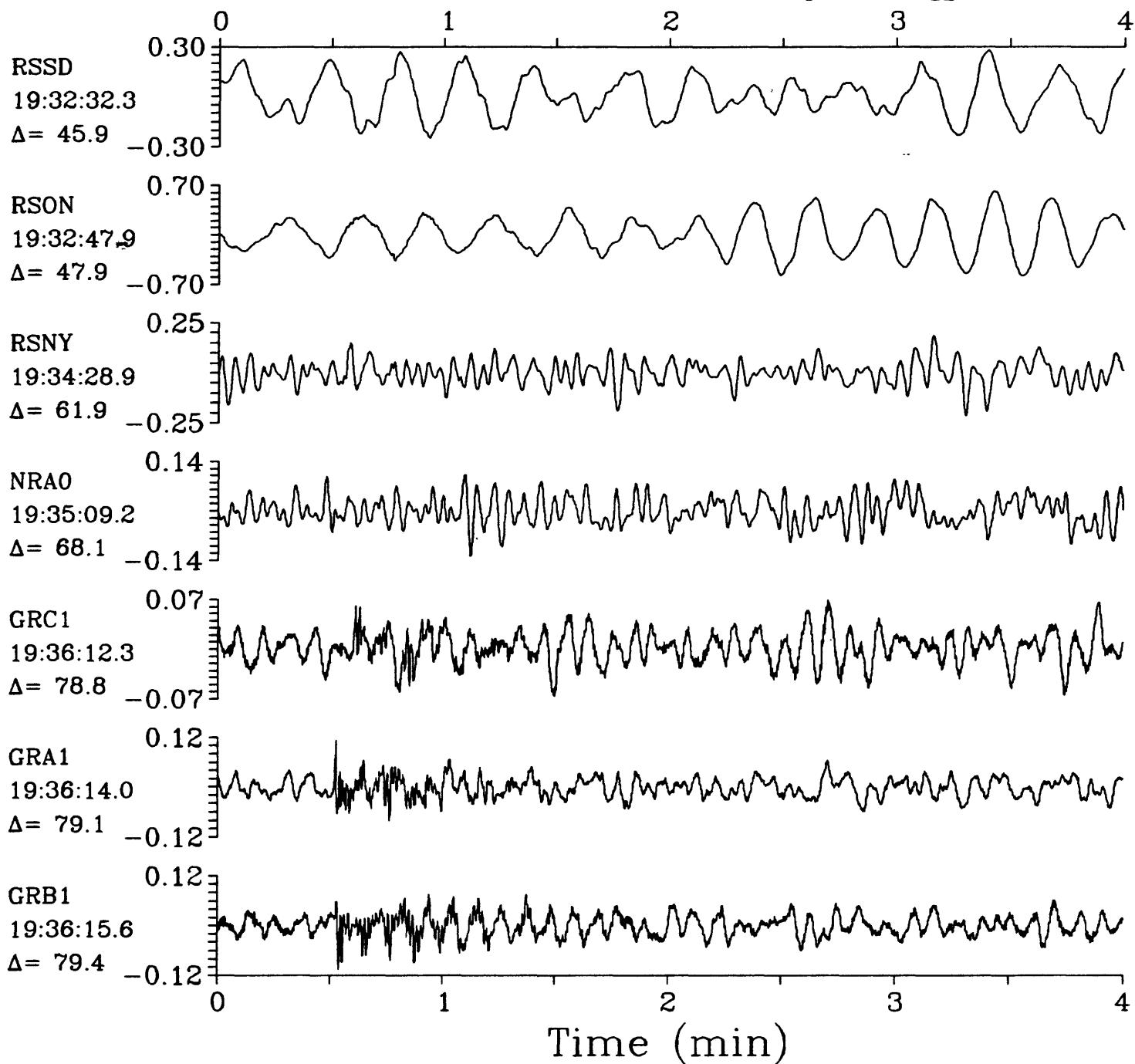
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.3$ $M_{sz}=5.8$ 

IPZ

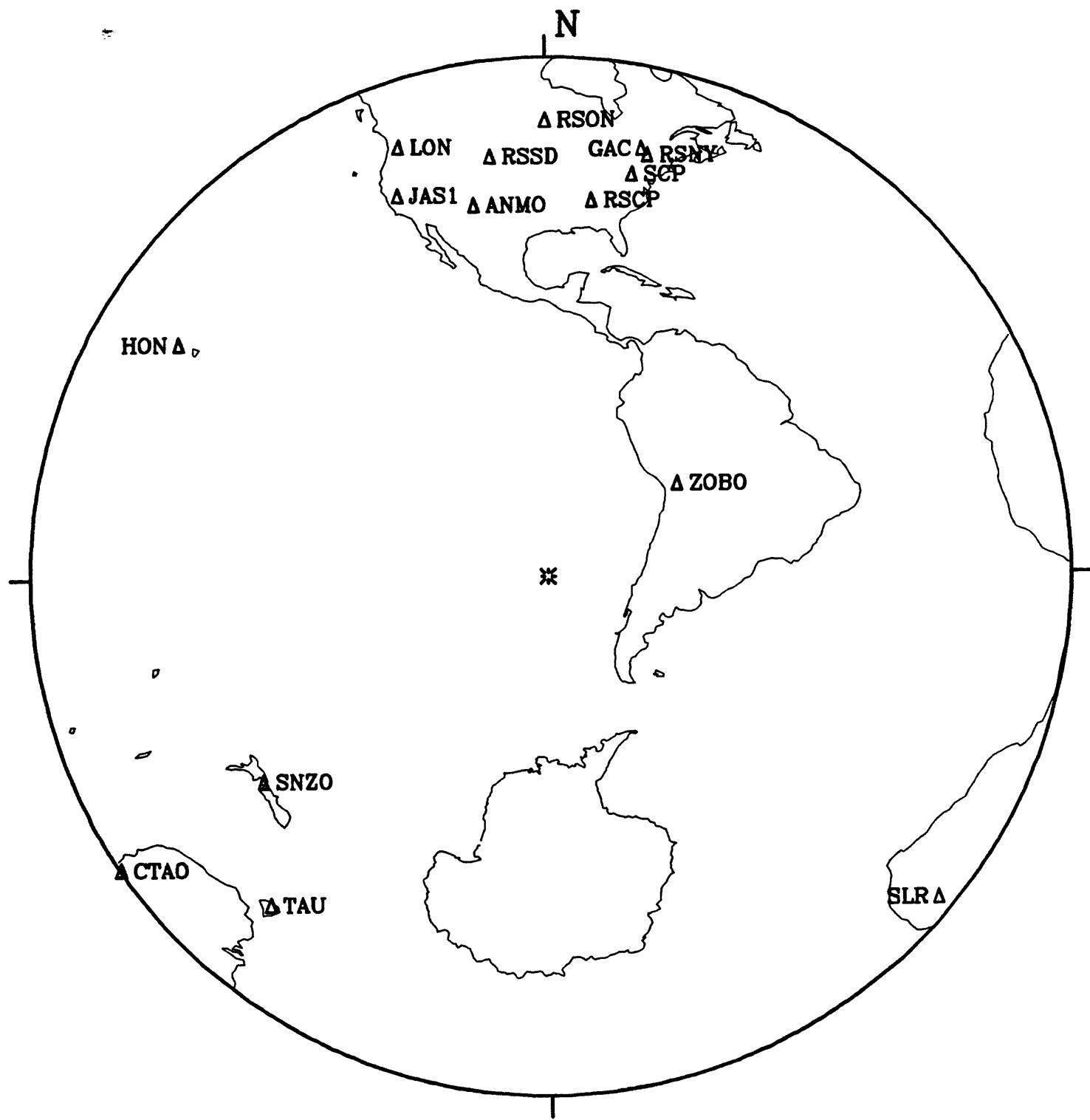
09 May 1986 19:24:42.30

IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.3$ $M_{sz}=5.8$ 

10 May 1986 12:02:01.74

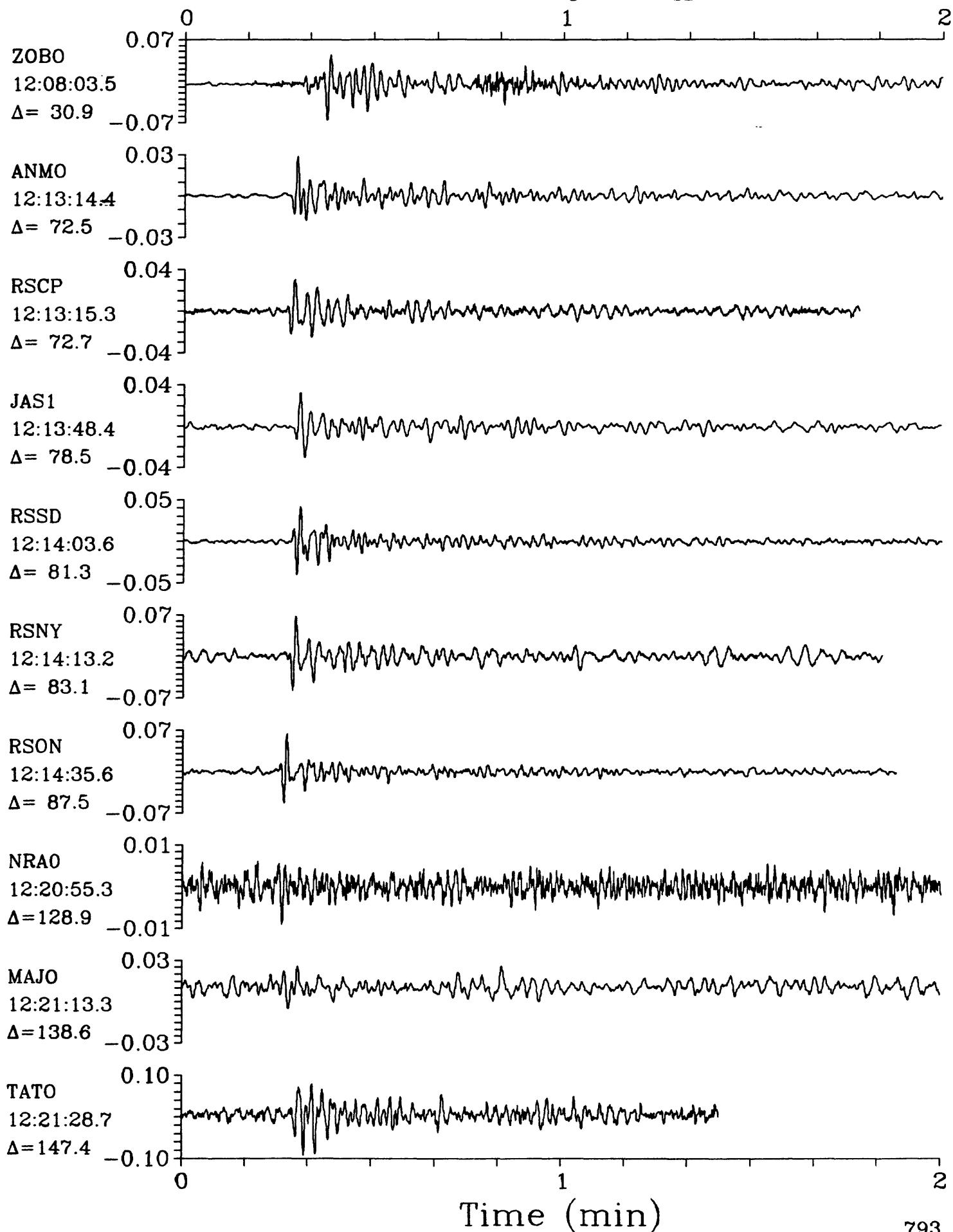
West Chile Rise



SPZ

10 May 1986 12:02:01.74

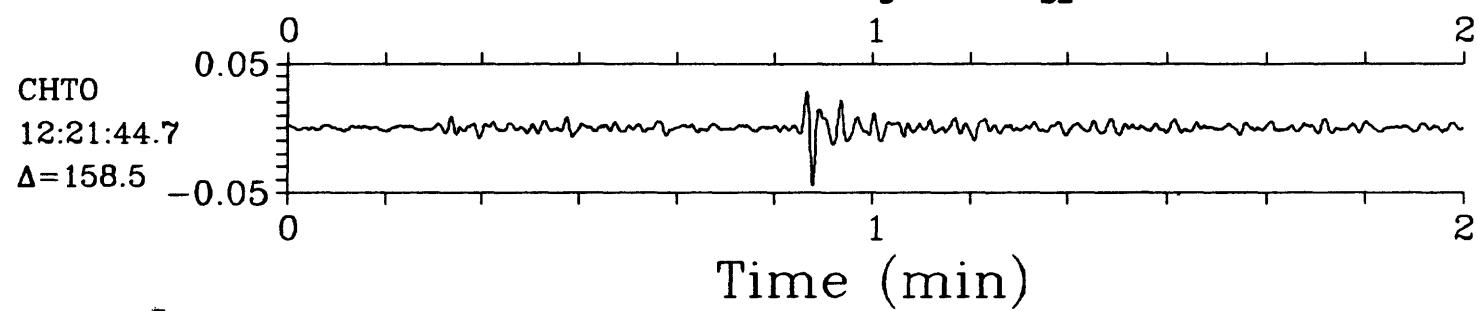
SPZ

West Chile Rise $h=10.0$ $m_b=5.6$ $M_{sz}=5.0$ 

SPZ

10 May 1986 12:02:01.74

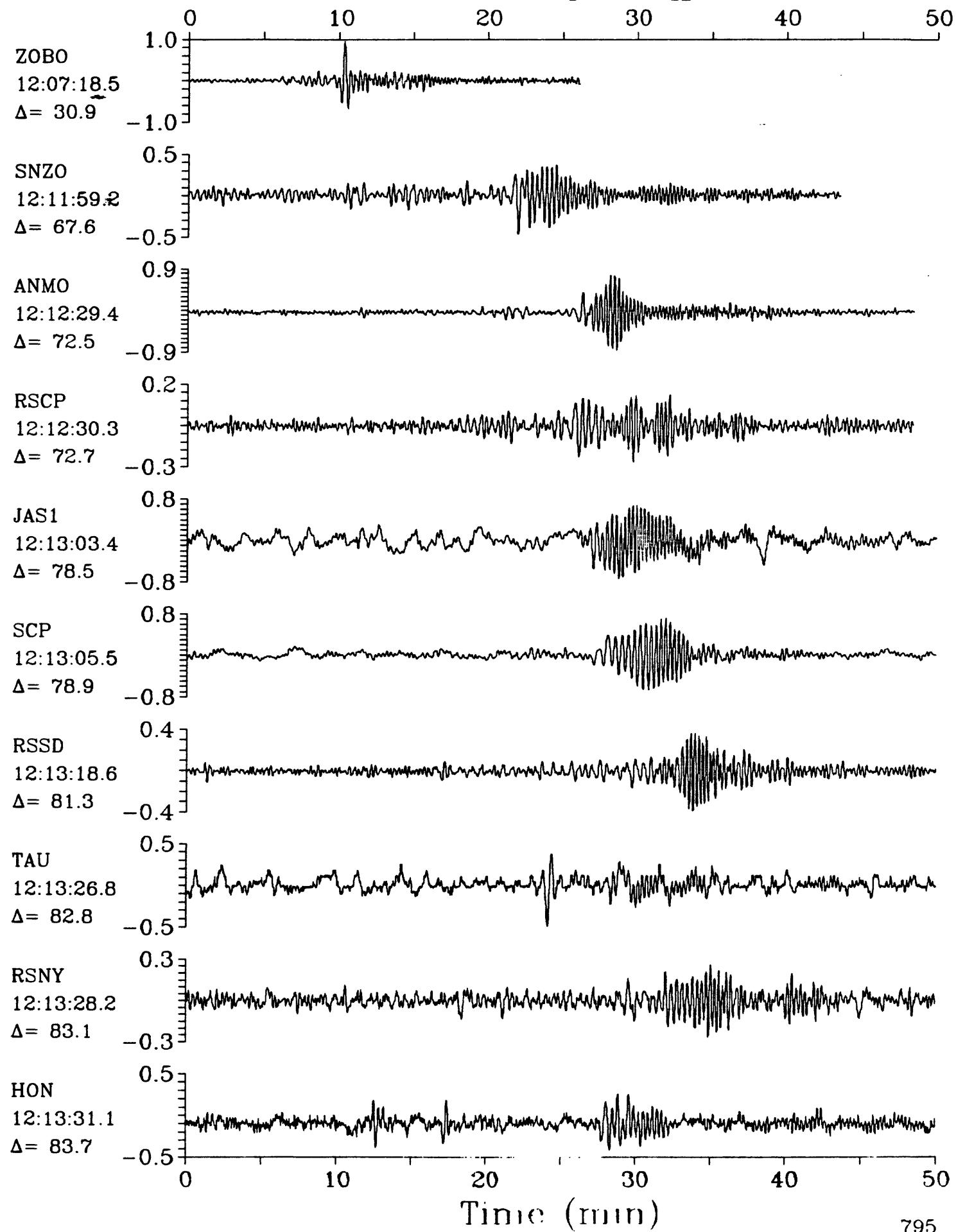
SPZ

West Chile Rise $h=10.0$ $m_b=5.6$ $M_{sz}=5.0$ 

LPZ

10 May 1986 12:02:01.74

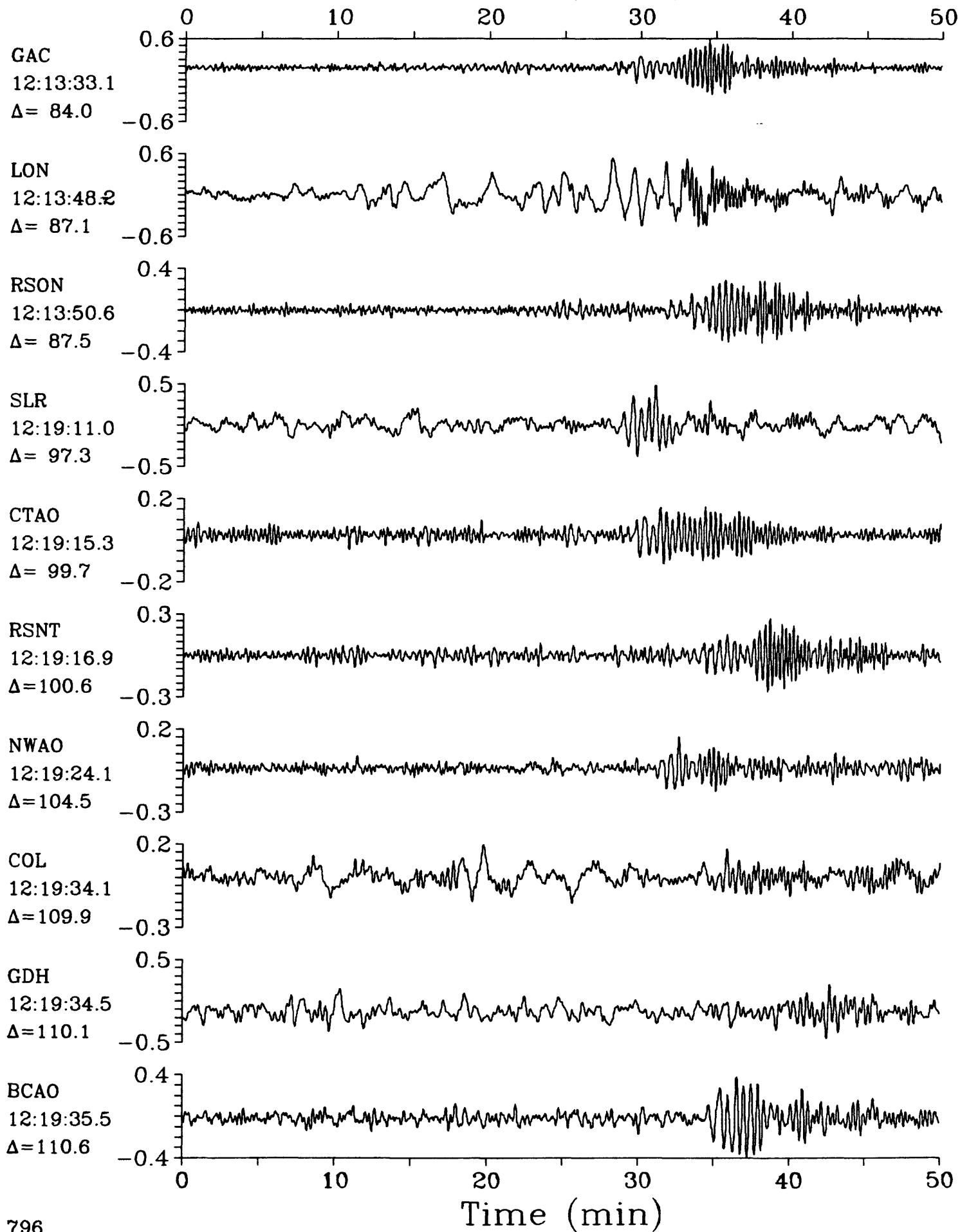
LPZ

West Chile Rise $h=10.0$ $m_b=5.6$ $M_{sz}=5.0$ 

LPZ

10 May 1986 12:02:01.74

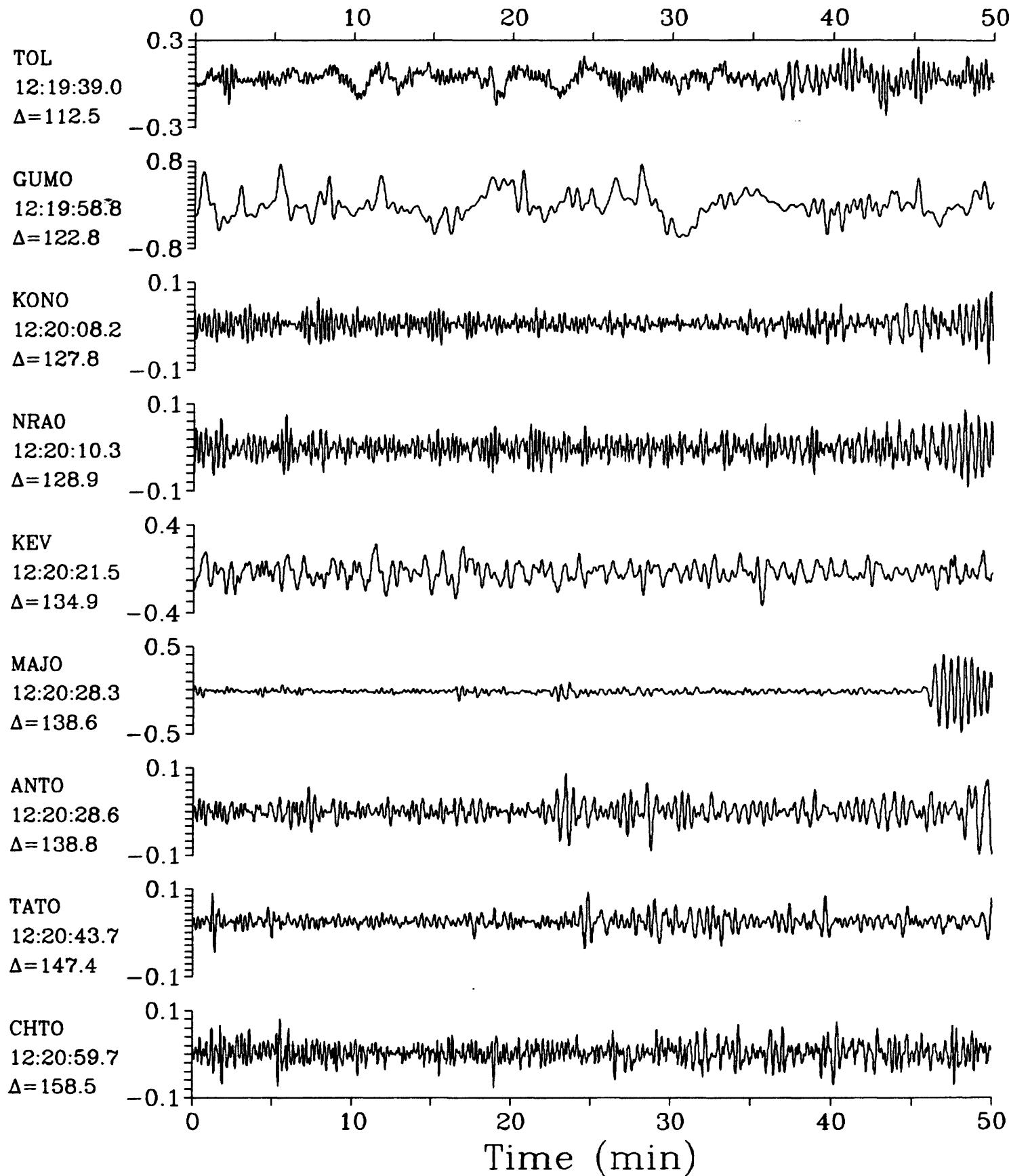
LPZ

West Chile Rise $h=10.0$ $m_b=5.6$ $M_{sz}=5.0$ 

LPZ

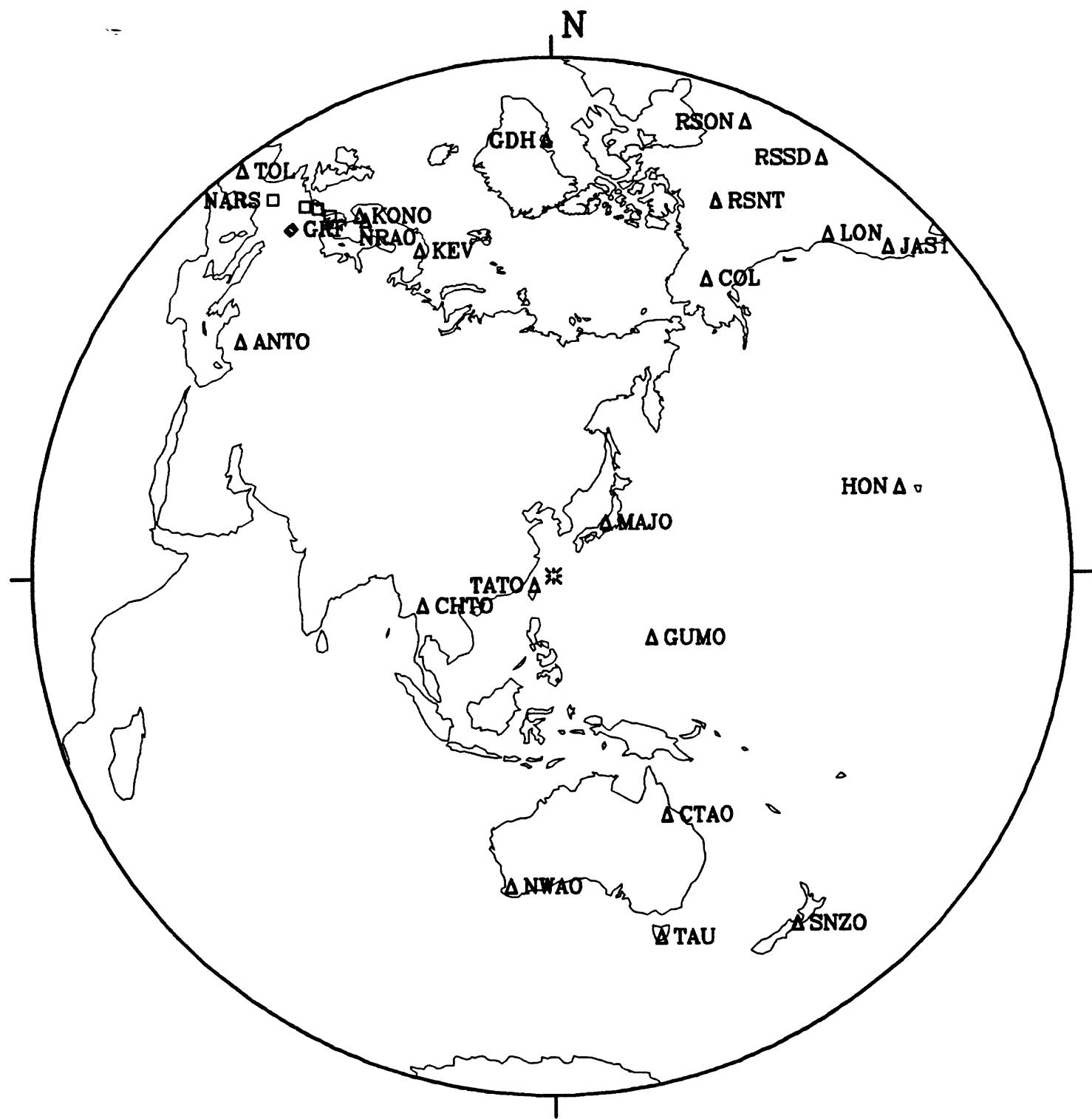
10 May 1986 12:02:01.74

LPZ

West Chile Rise $h=10.0$ $m_b=5.6$ $M_{sz}=5.0$ 

11 May 1986 01:24:28.77

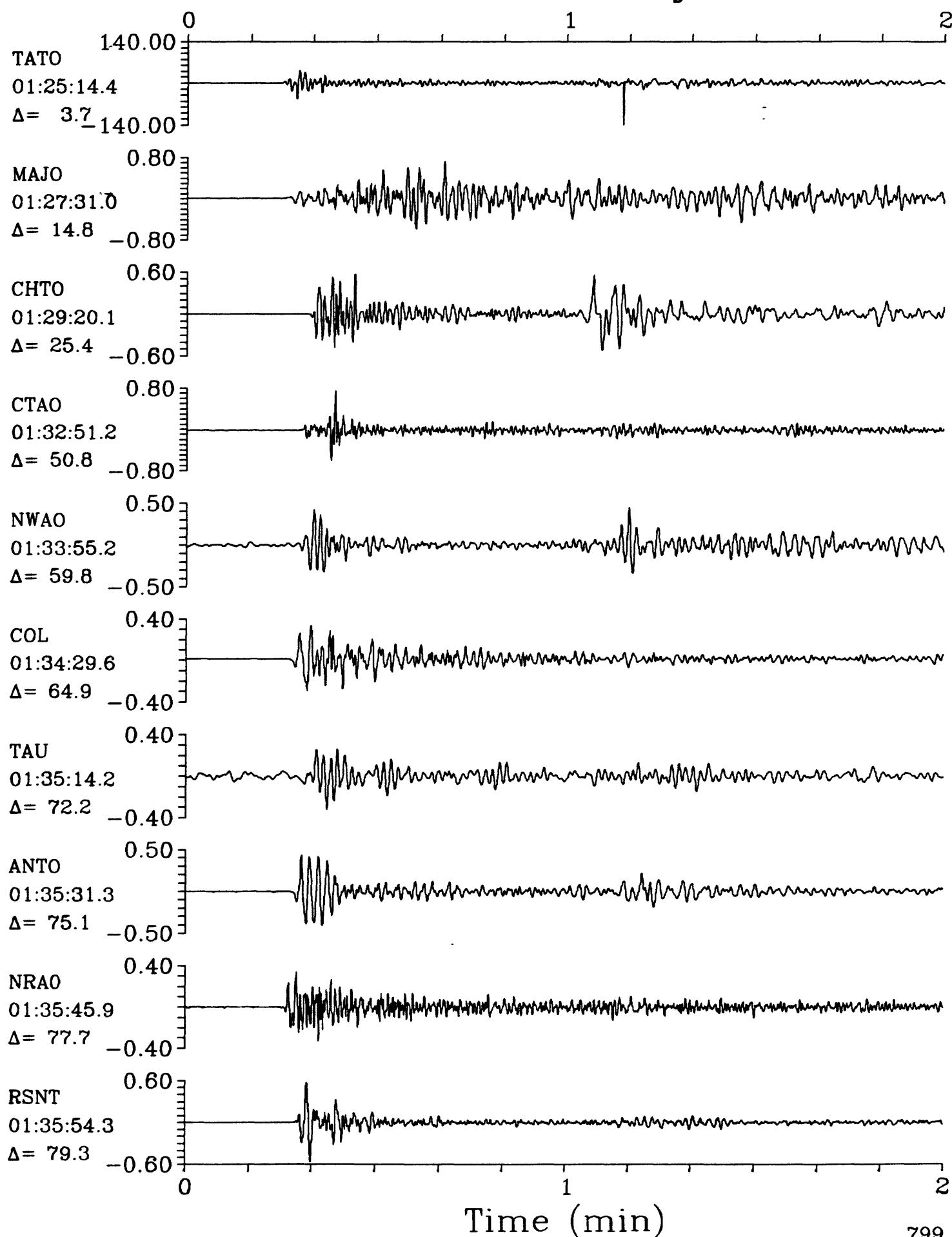
Northeast of Taiwan



SPZ

11 May 1986 01:24:28.77

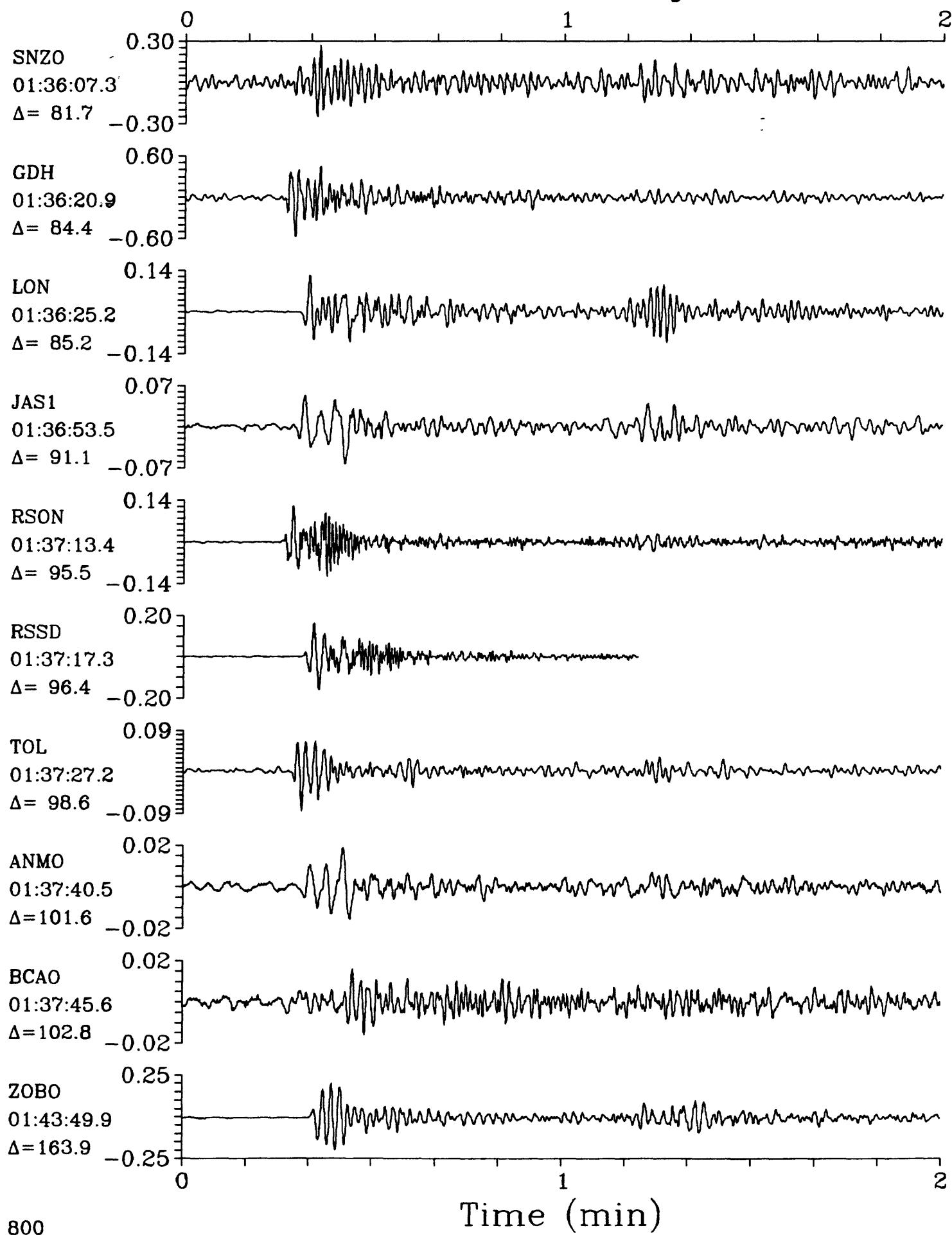
SPZ

Northeast of Taiwan h=222.6 m_b=5.9

SPZ

11 May 1986 01:24:28.77

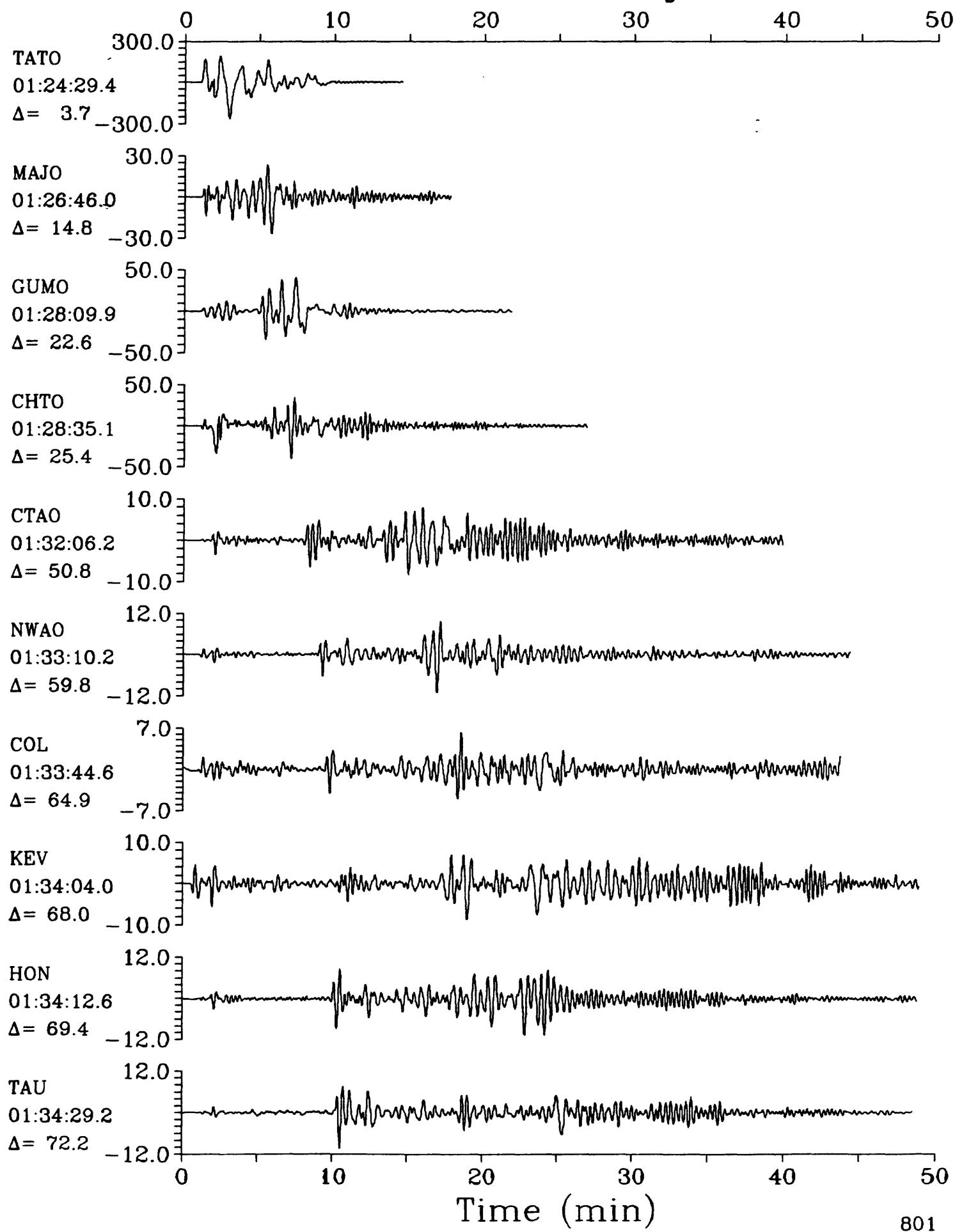
SPZ

Northeast of Taiwan h=222.6 m_b=5.9

LPZ

11 May 1986 01:24:28.77

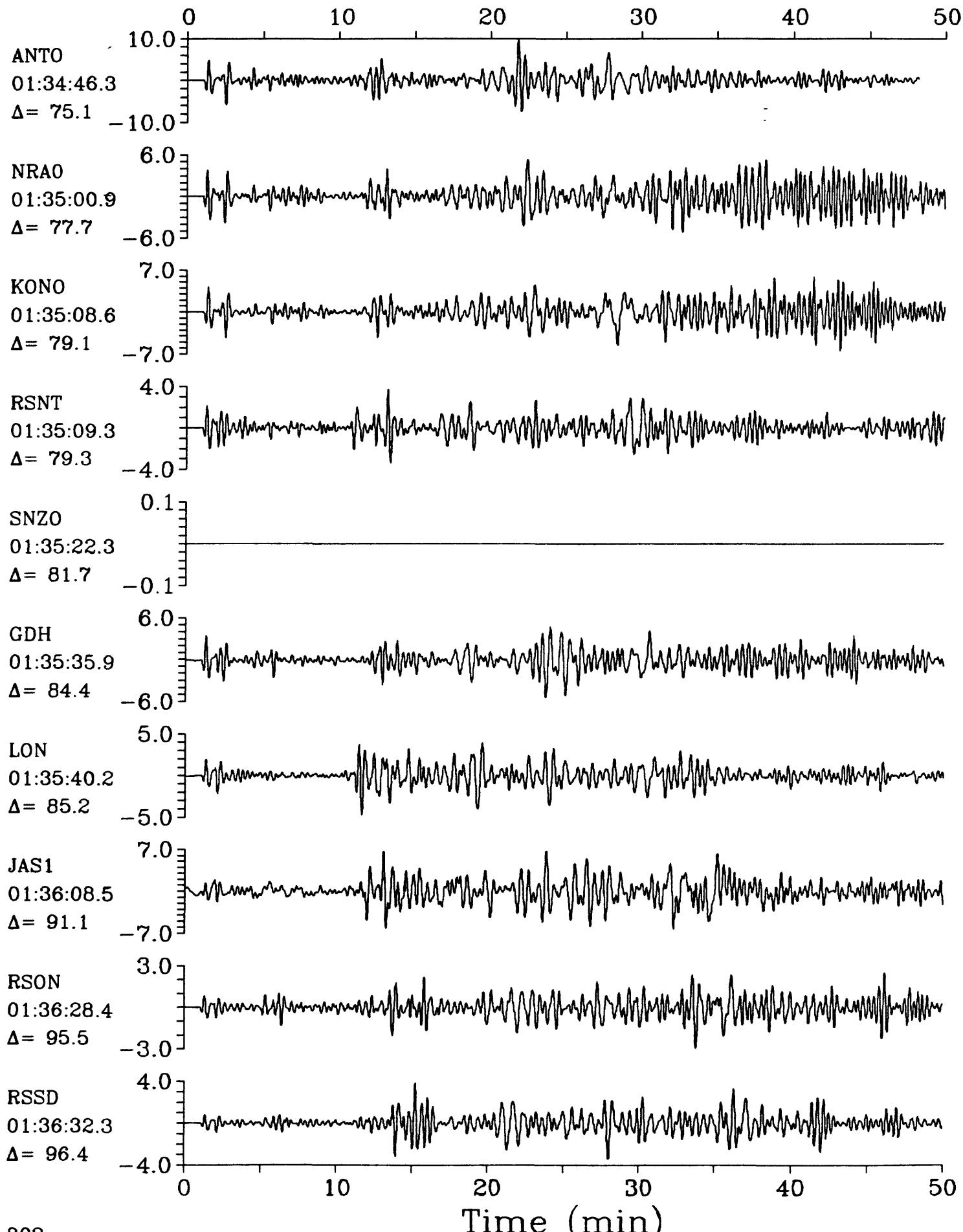
LPZ

Northeast of Taiwan h=222.6 m_b=5.9

LPZ

11 May 1986 01:24:28.77

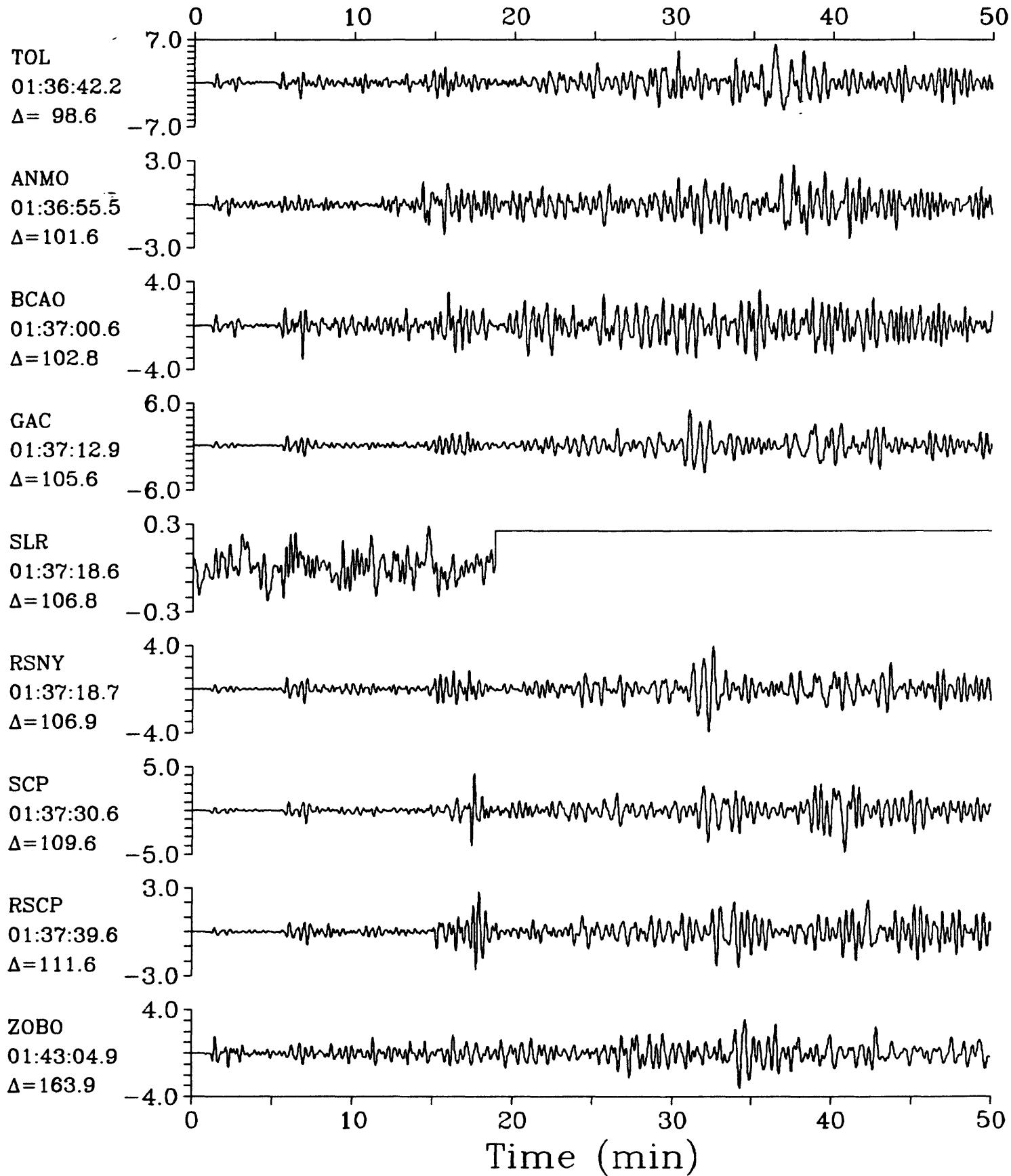
LPZ

Northeast of Taiwan $h=222.6$ $m_b=5.9$ 

LPZ

11 May 1986 01:24:28.77
Northeast of Taiwan h=222.6 m_b=5.9

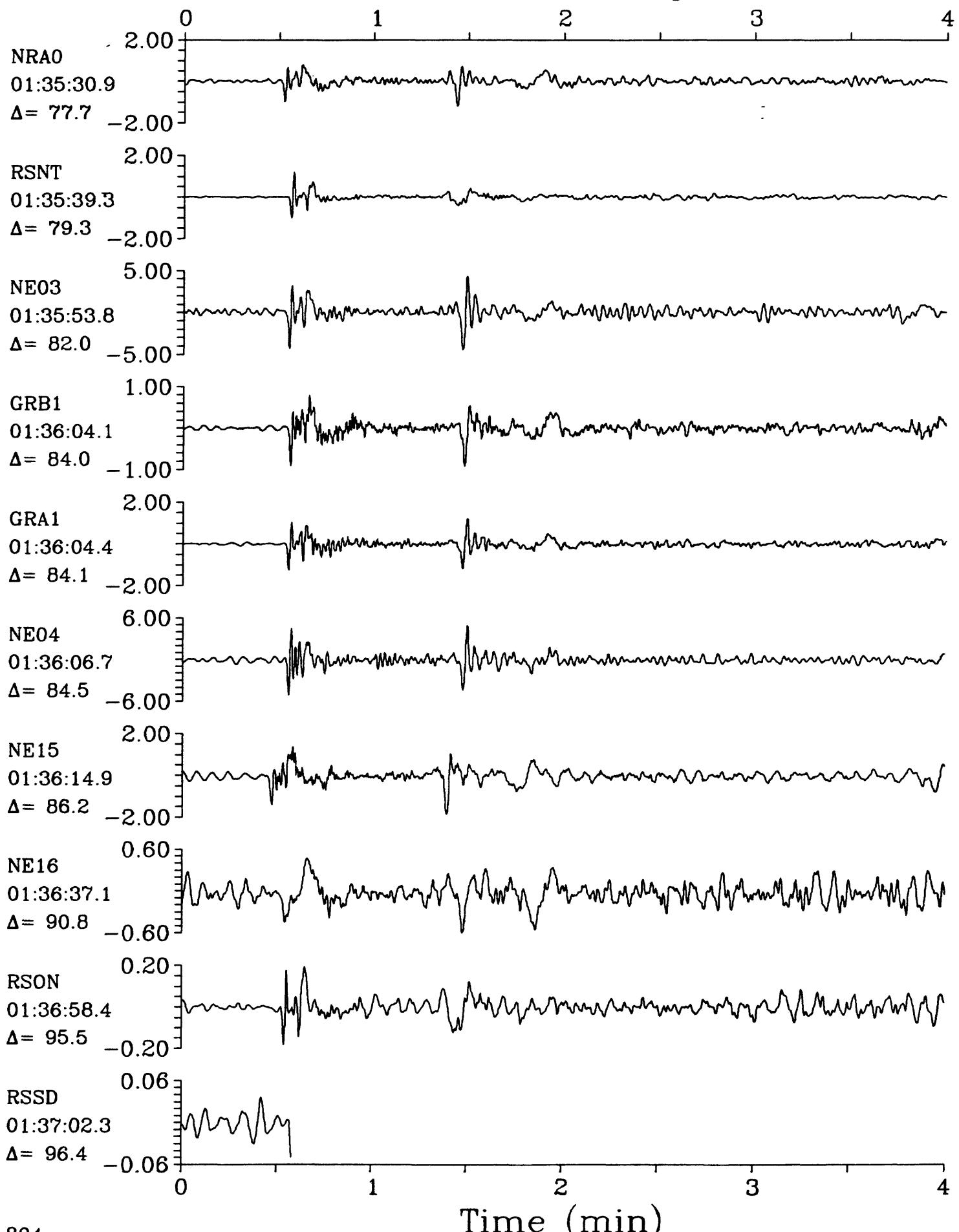
LPZ



IPZ

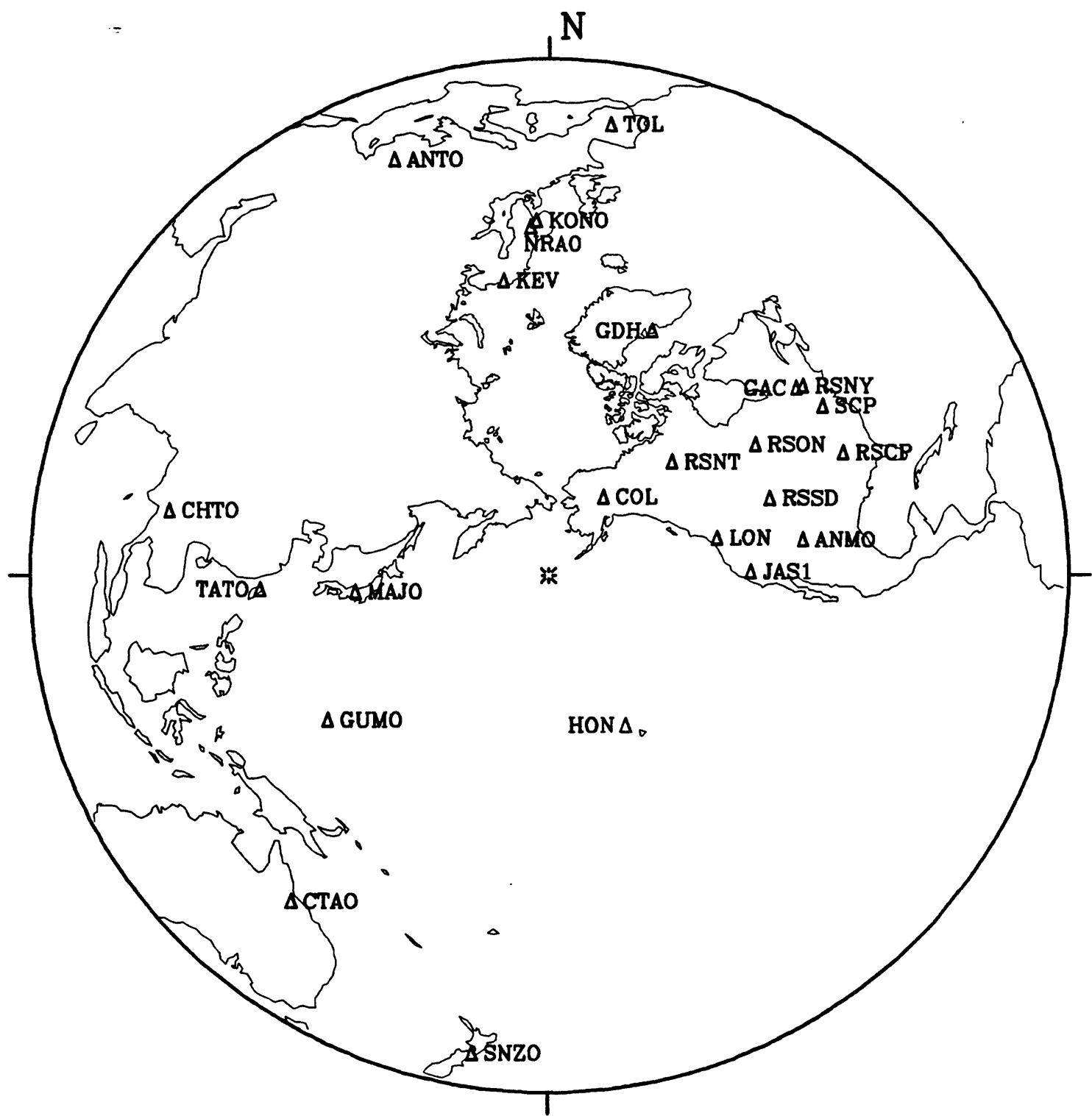
11 May 1986 01:24:28.77

IPZ

Northeast of Taiwan $h=222.6$ $m_b=5.9$ 

11 May 1986 19:40:31.20

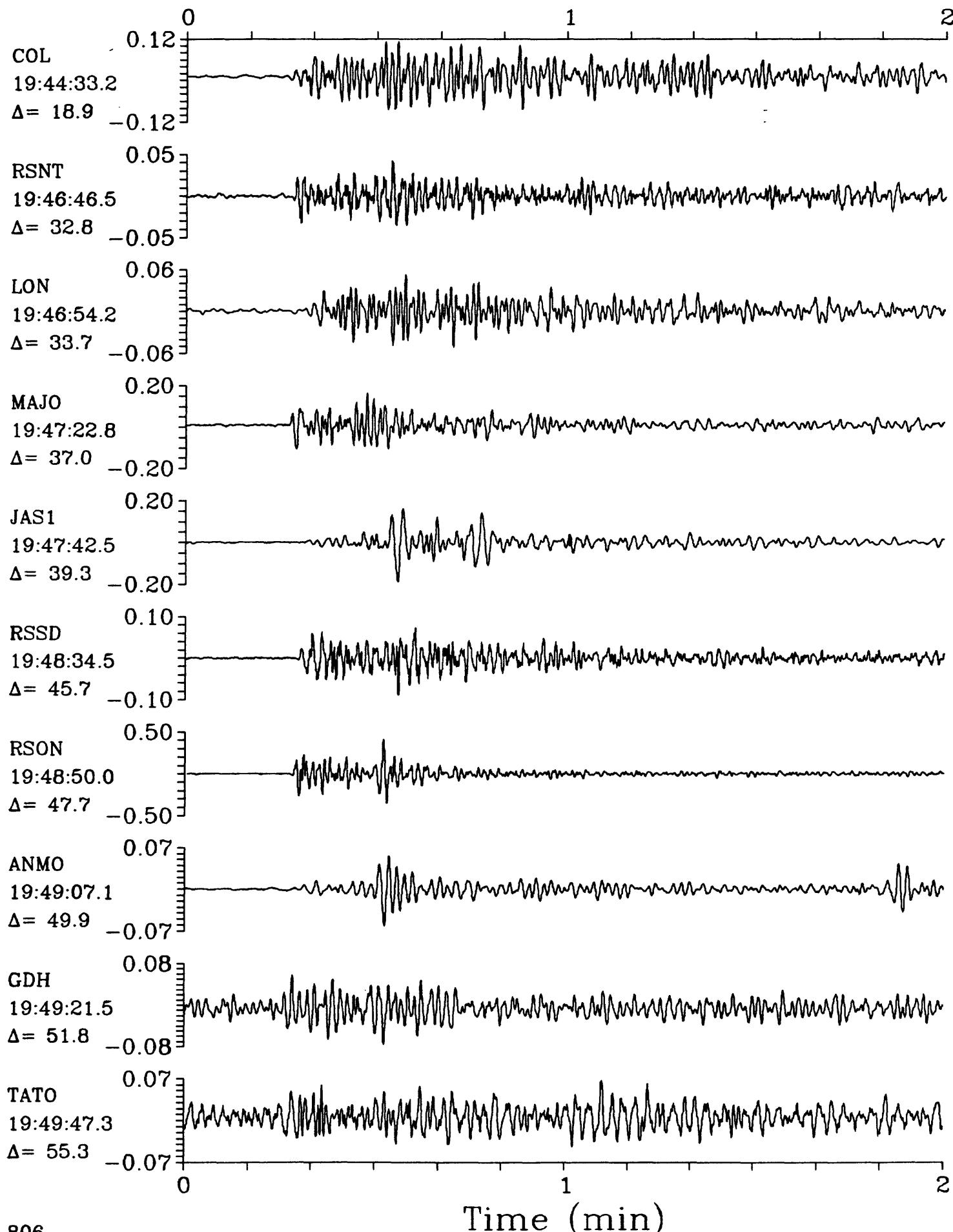
Andreanof Islands, Aleutian Is.



SPZ

11 May 1986 19:40:31.20

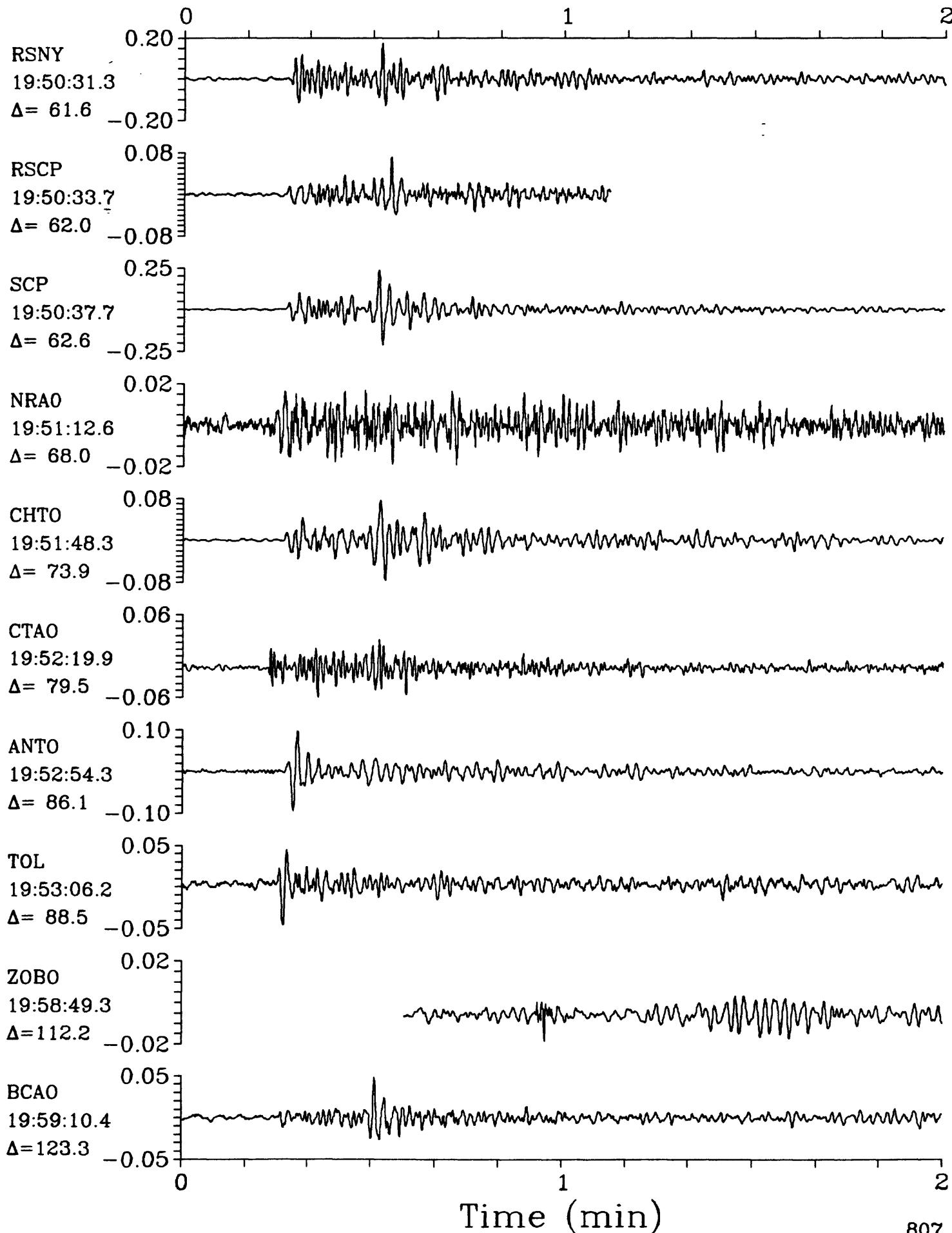
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=5.2$ 

SPZ

11 May 1986 19:40:31.20

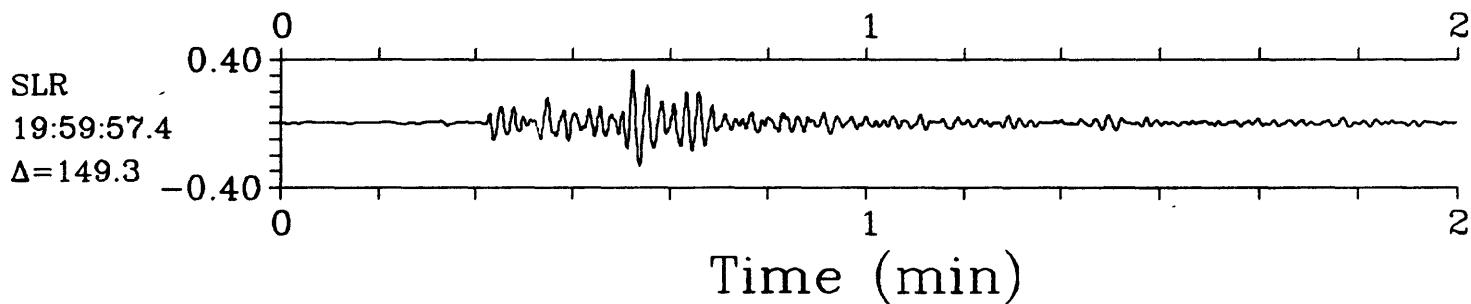
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=5.2$ 

SPZ

11 May 1986 19:40:31.20

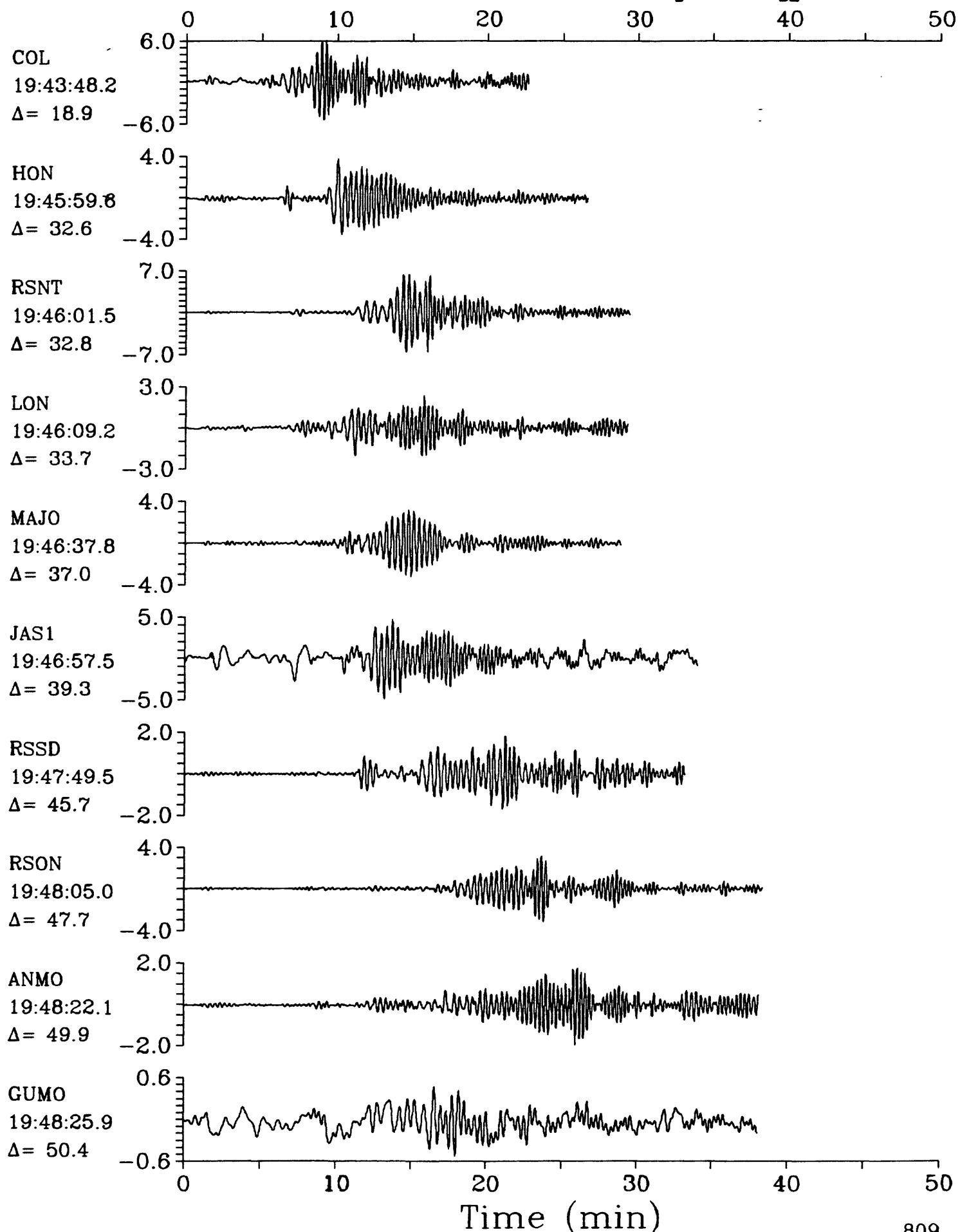
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=5.2$ 

LPZ

11 May 1986 19:40:31.20

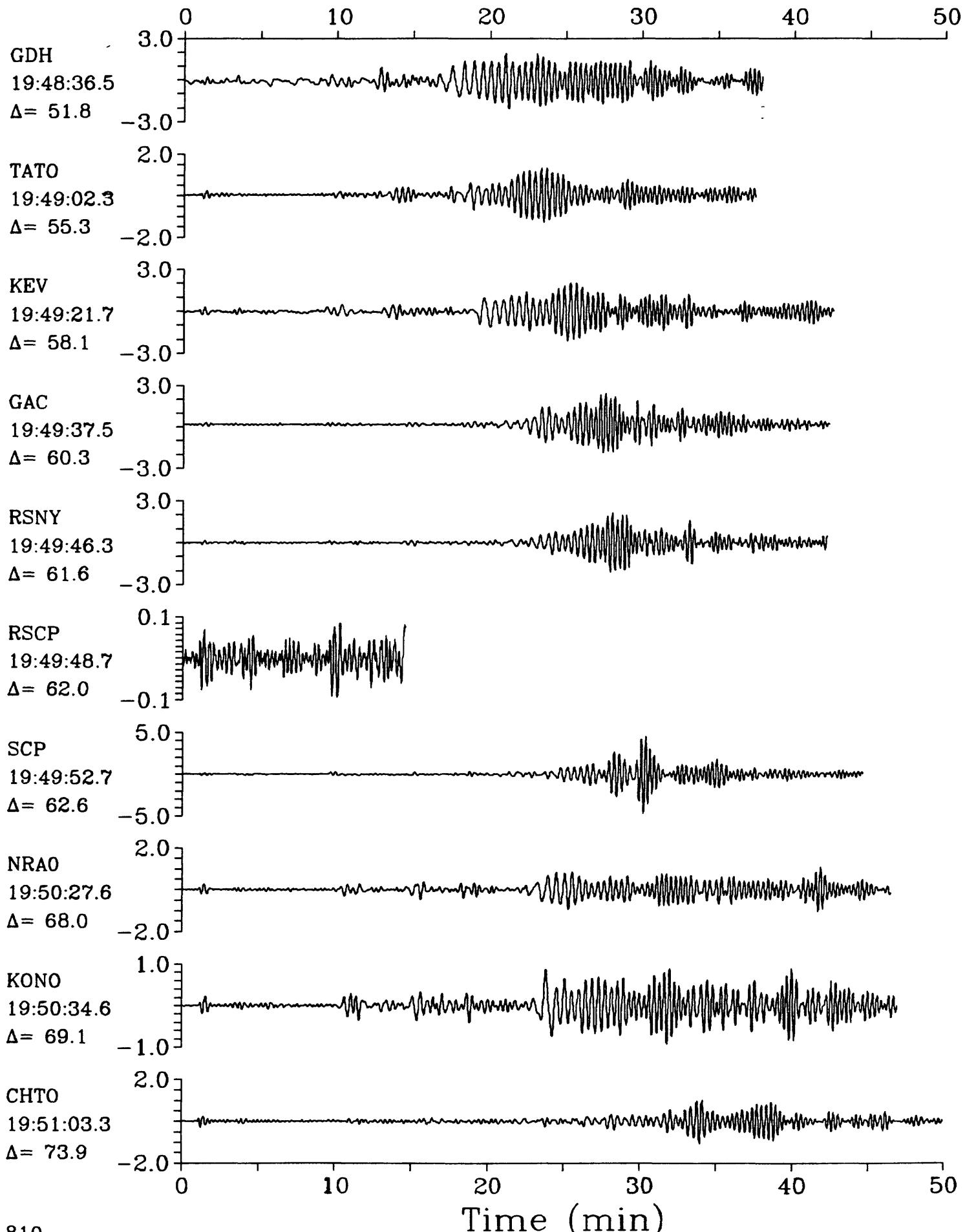
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=5.2$ 

LPZ

11 May 1986 19:40:31.20

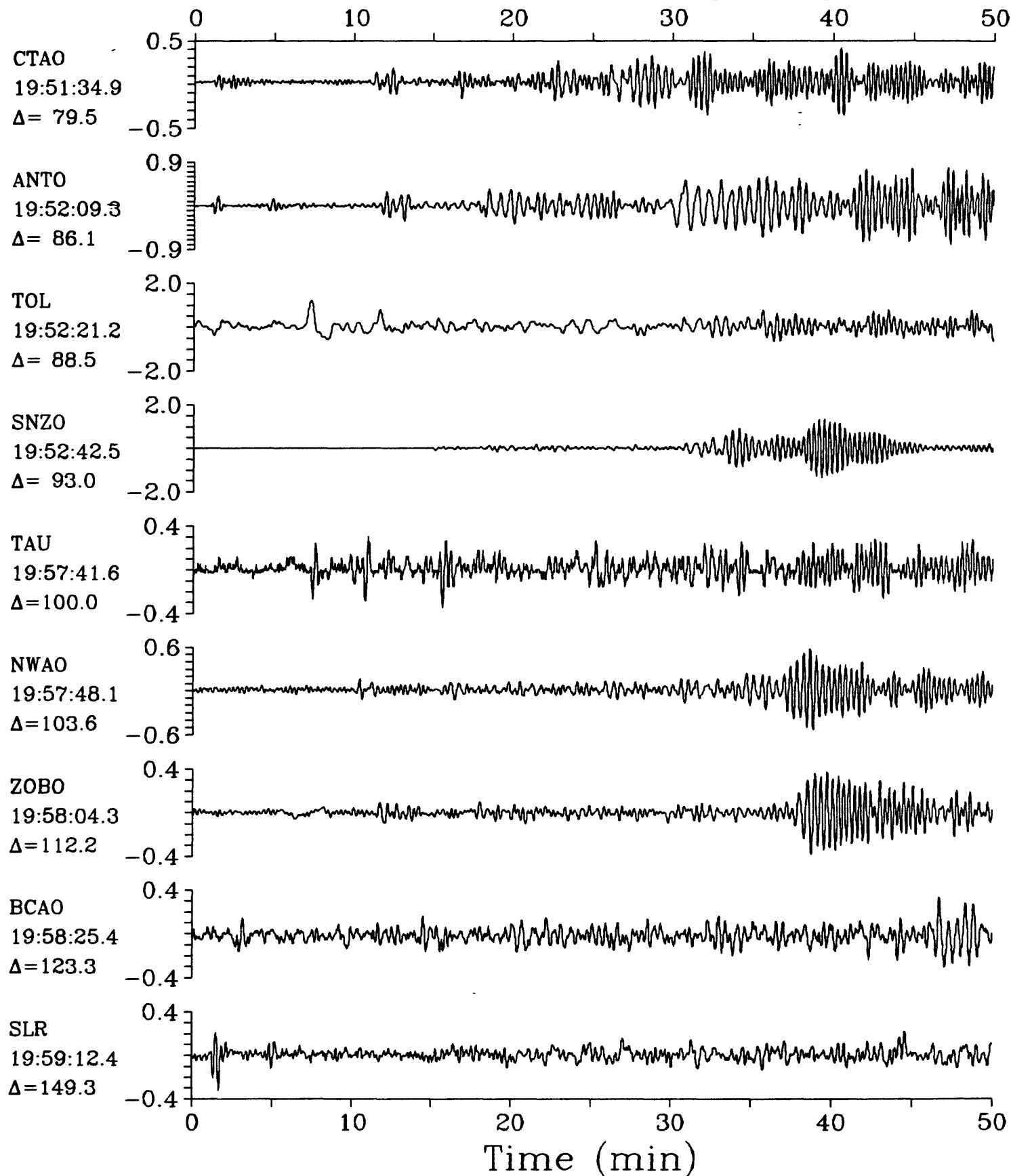
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=5.2$ 

LPZ

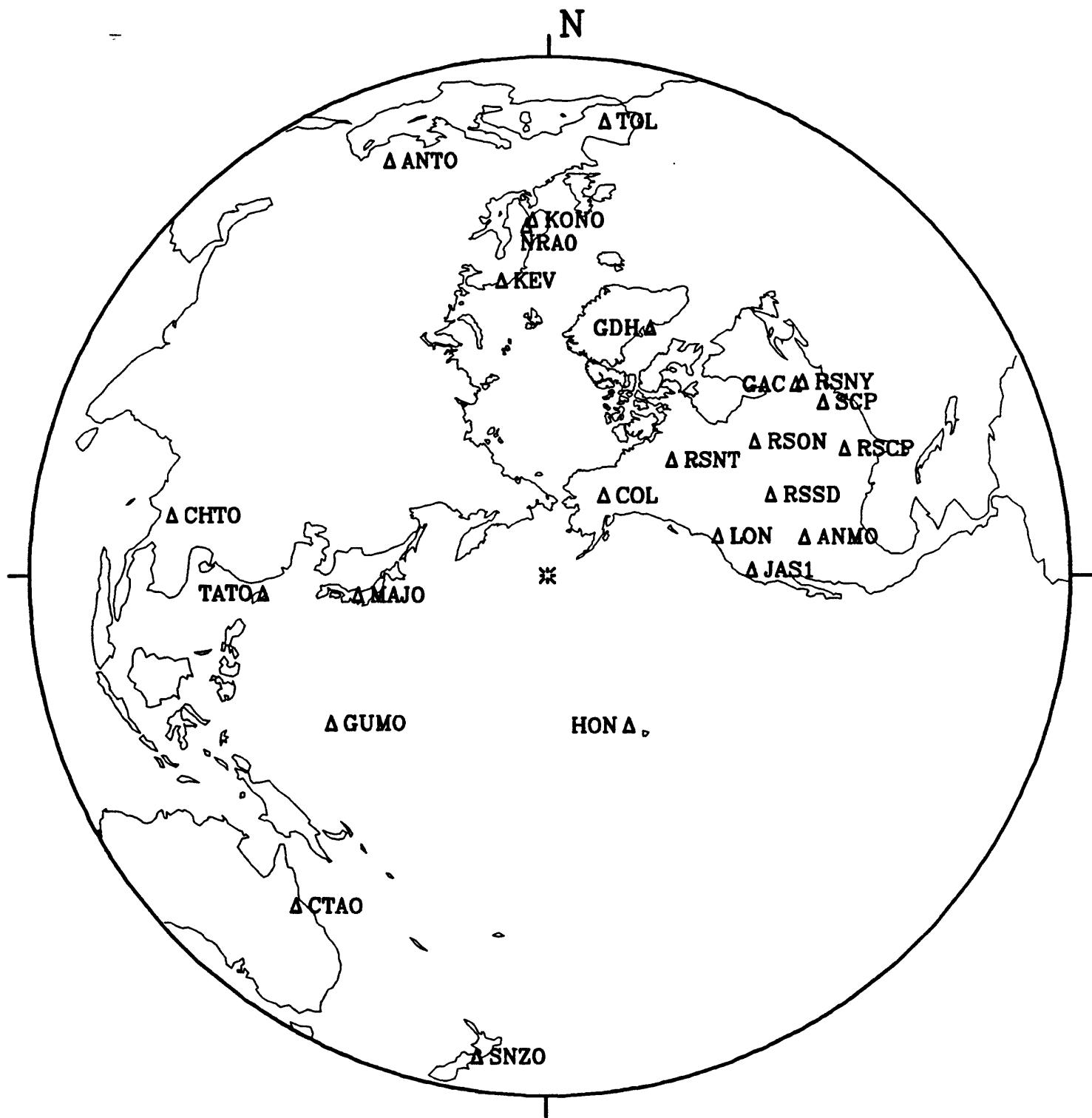
11 May 1986 19:40:31.20

LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{SZ}=5.2$ 

11 May 1986 22:48:45.93

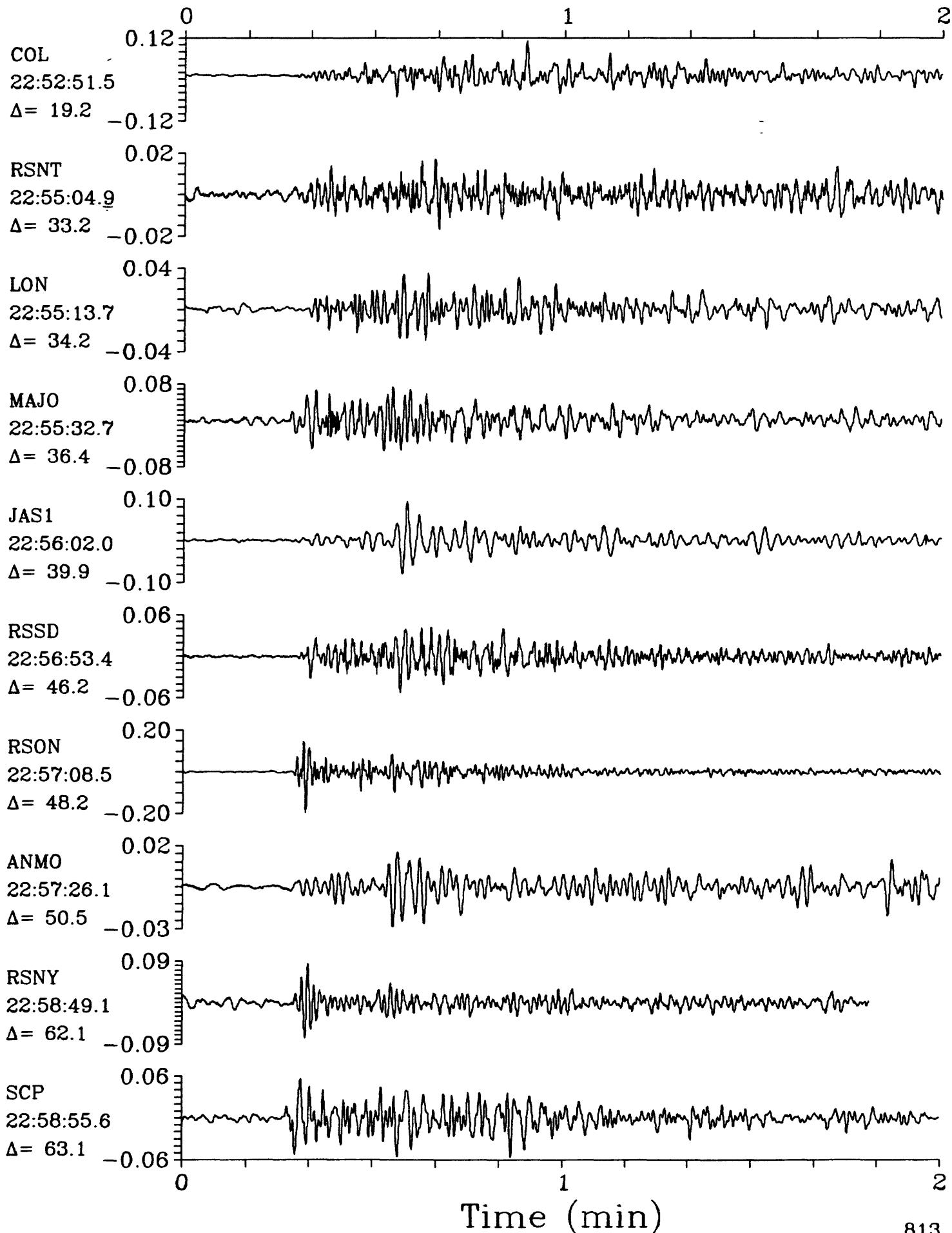
Andreanof Islands, Aleutian Is.



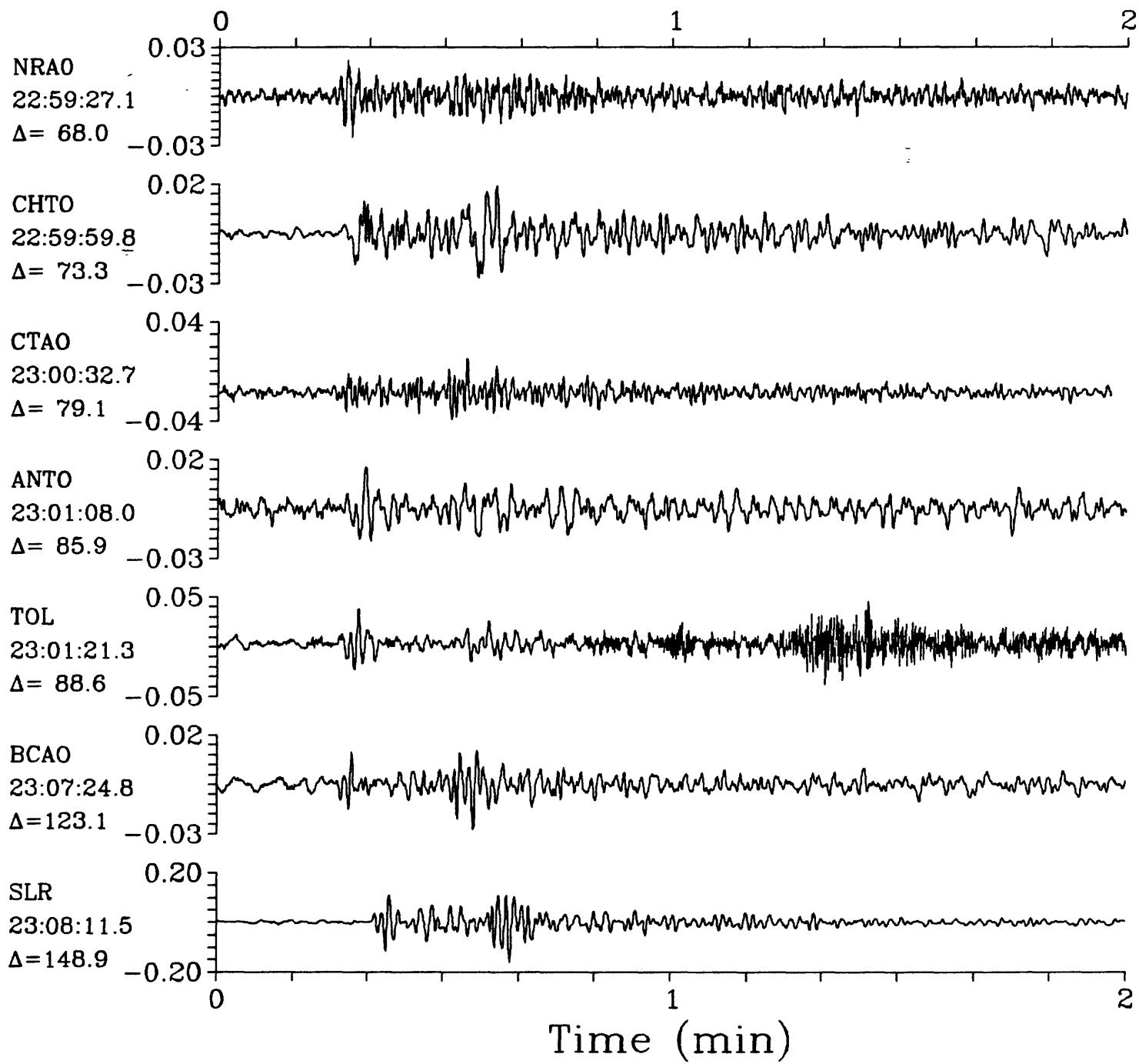
SPZ

11 May 1986 22:48:45.93

SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ $M_{sz}=5.1$ 

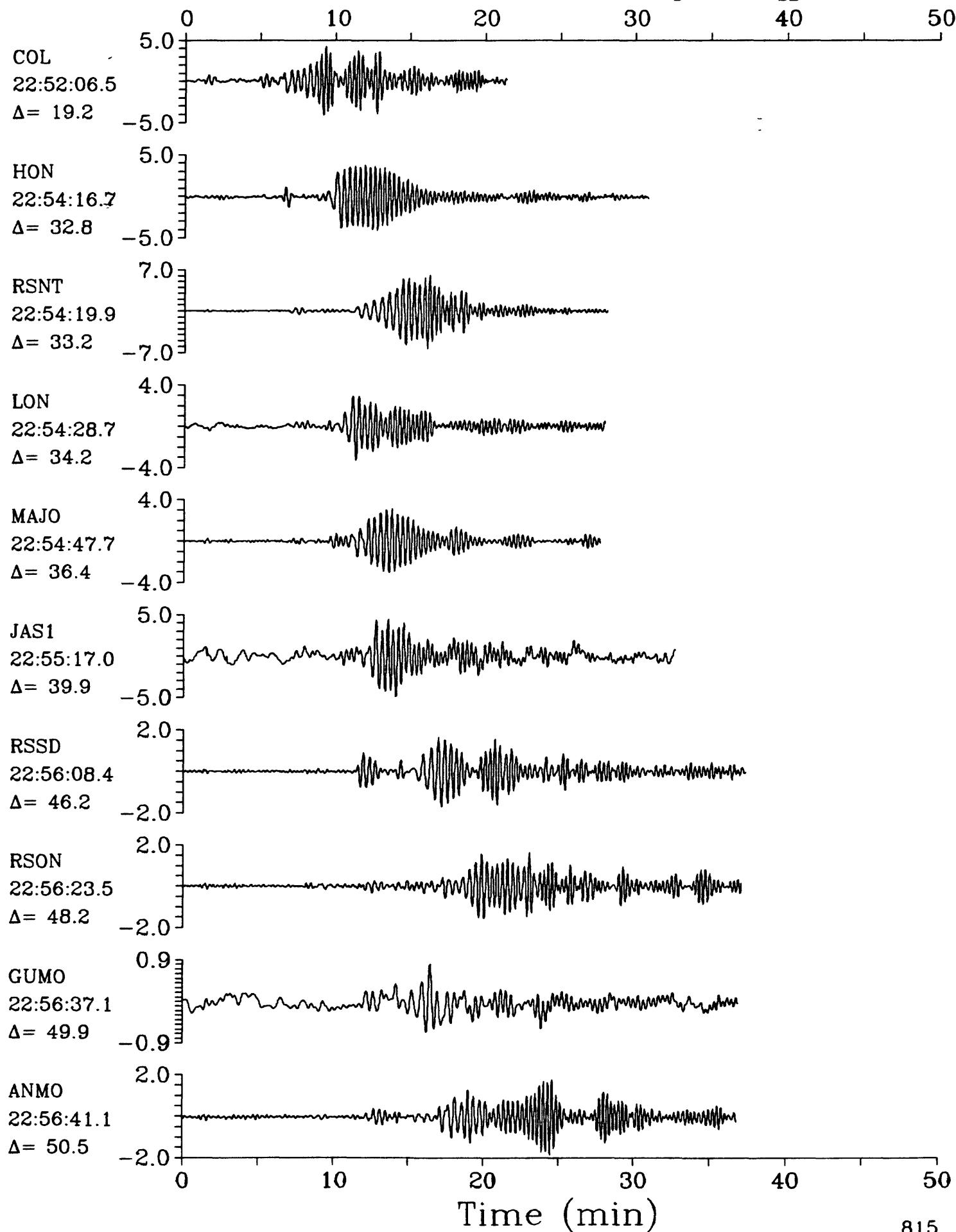
SPZ 11 May 1986 22:48:45.93 SPZ
Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ $M_{SZ}=5.1$



LPZ

11 May 1986 22:48:45.93

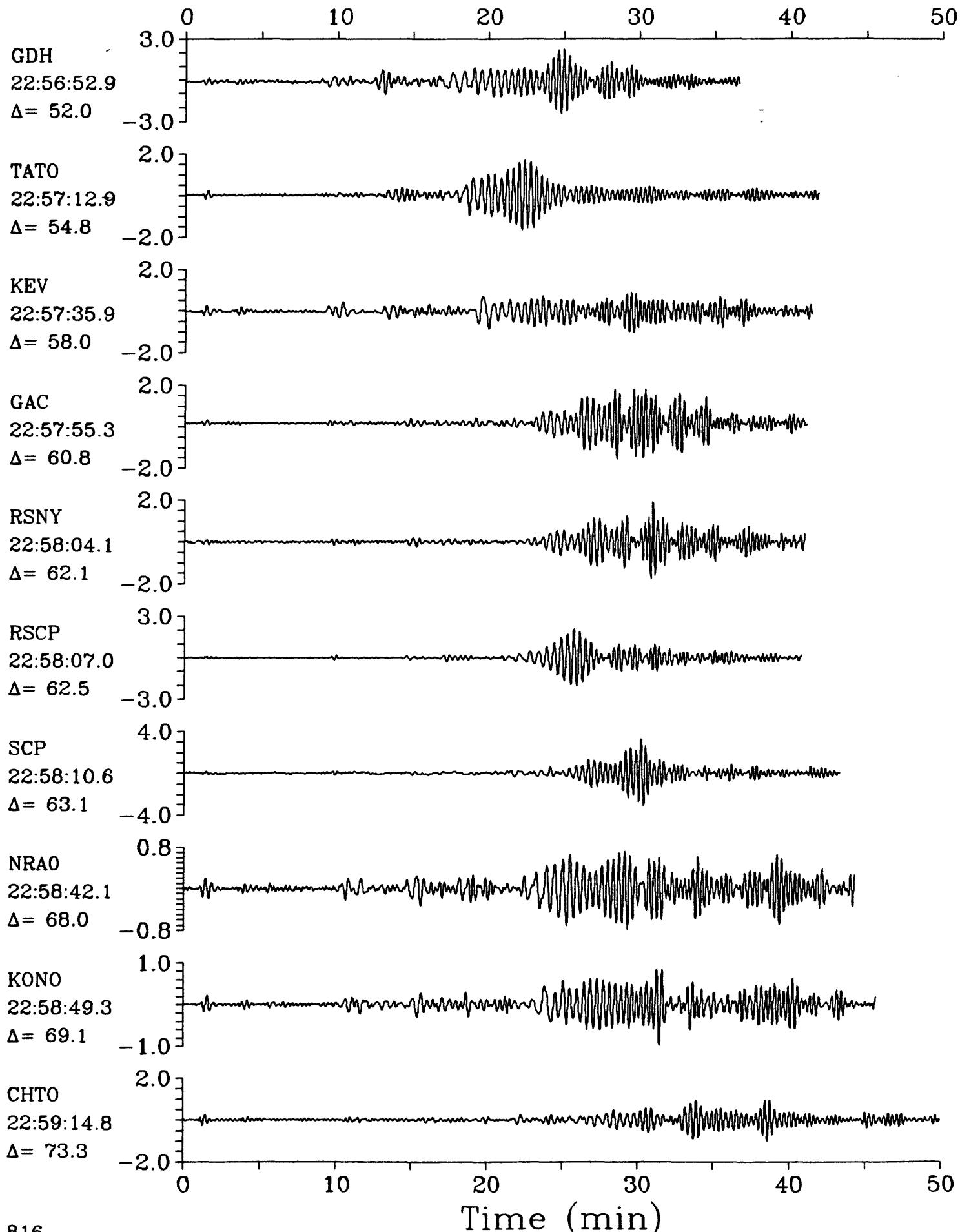
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ $M_{sz}=5.1$ 

LPZ

11 May 1986 22:48:45.93

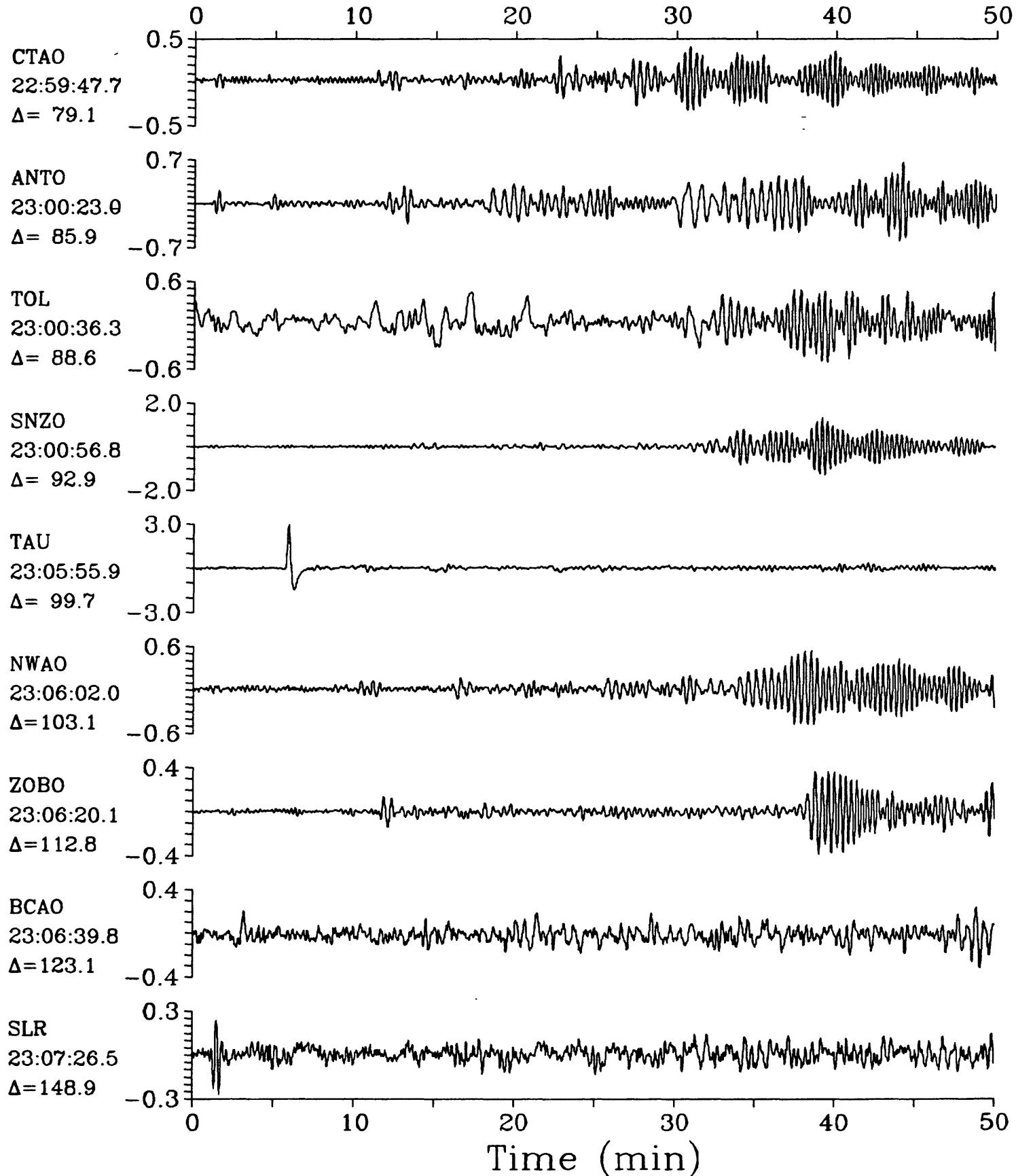
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ $M_{sz}=5.1$ 

LPZ

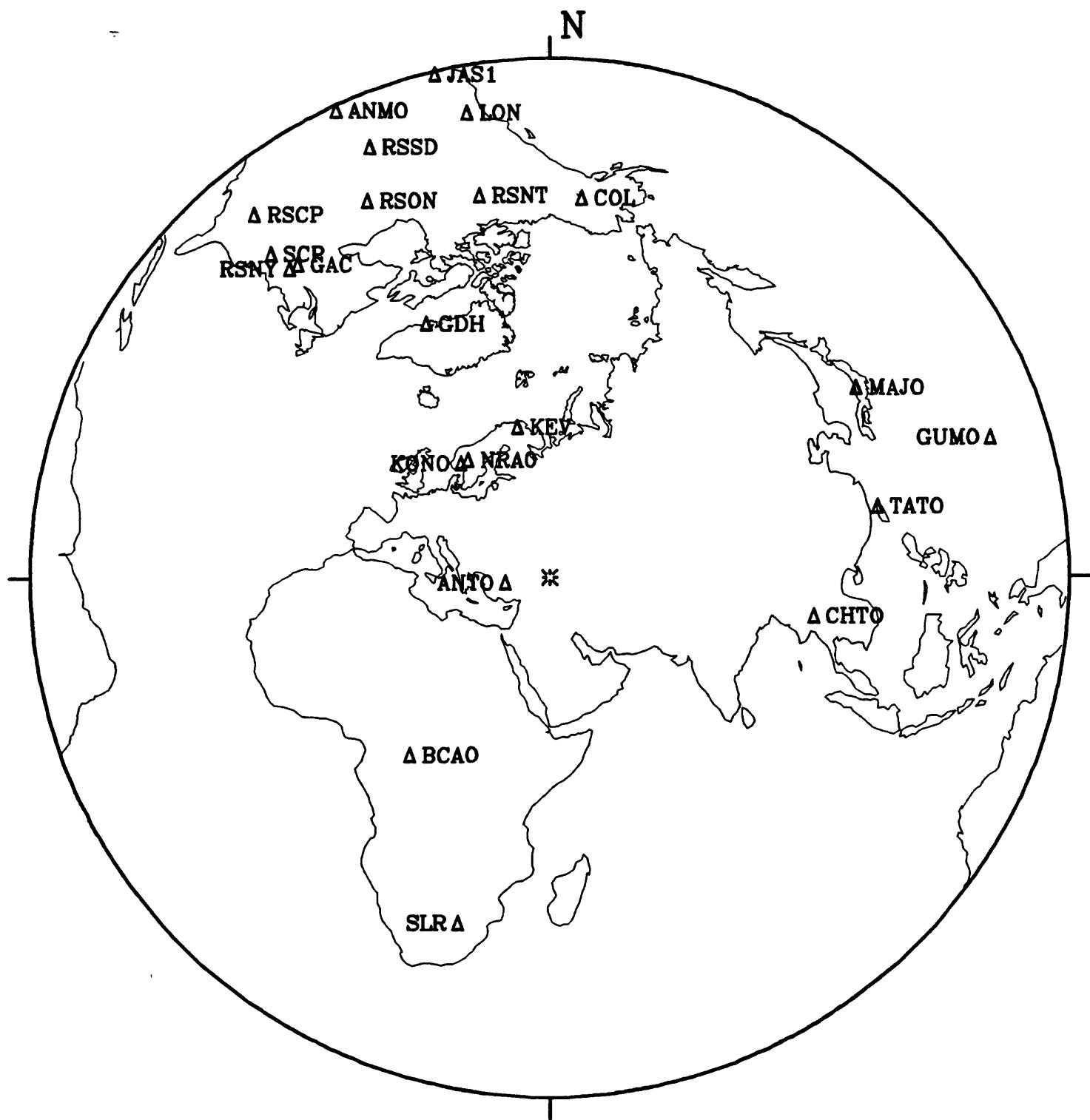
11 May 1986 22:48:45.93

LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ $M_{sz}=5.1$ 

13 May 1986 08:44:02.05

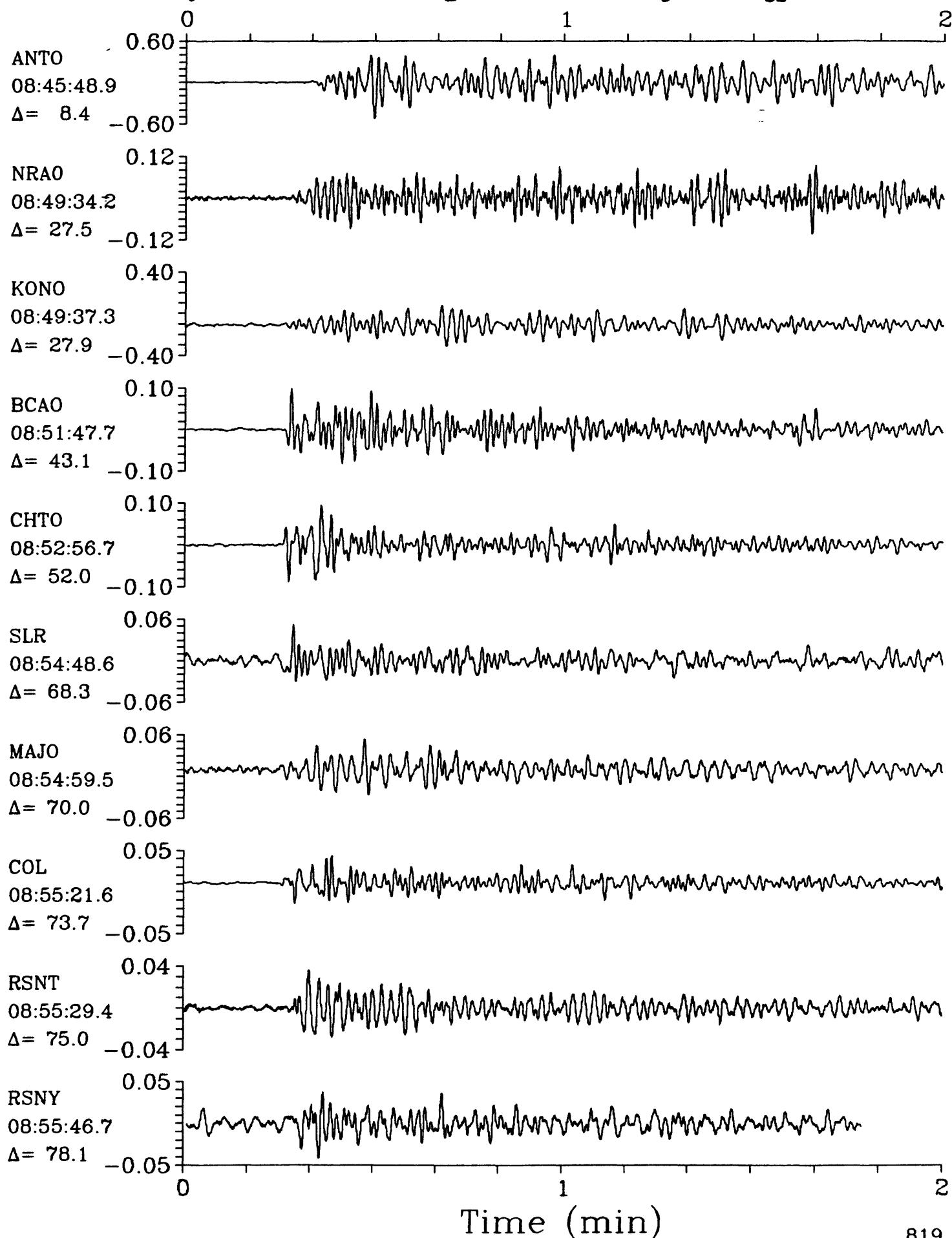
Turkey-USSR Border Region



SPZ

13 May 1986 08:44:02.05

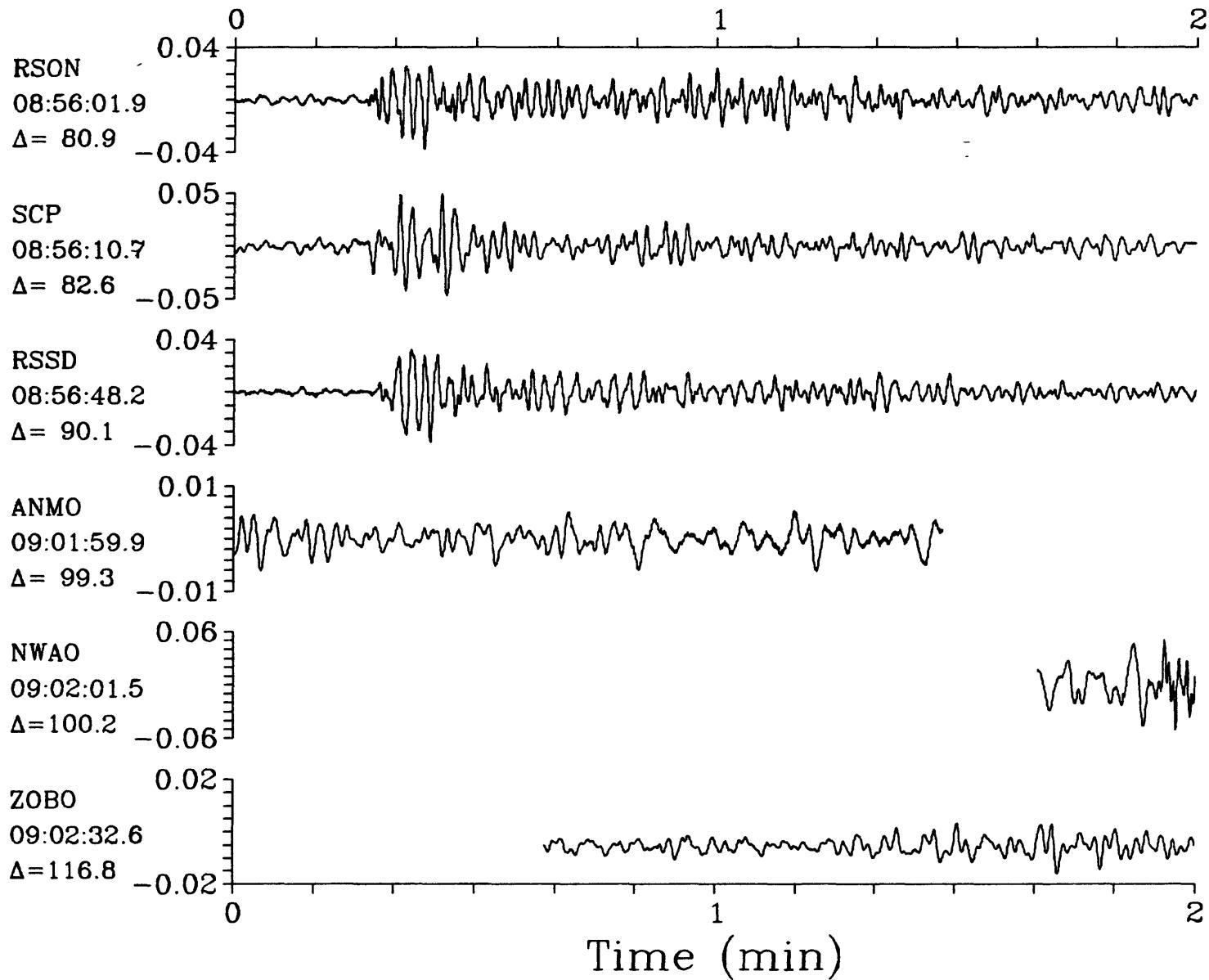
SPZ

Turkey-USSR Border Region $h=10.0$ $m_b=5.6$ $M_{Sz}=5.4$ 

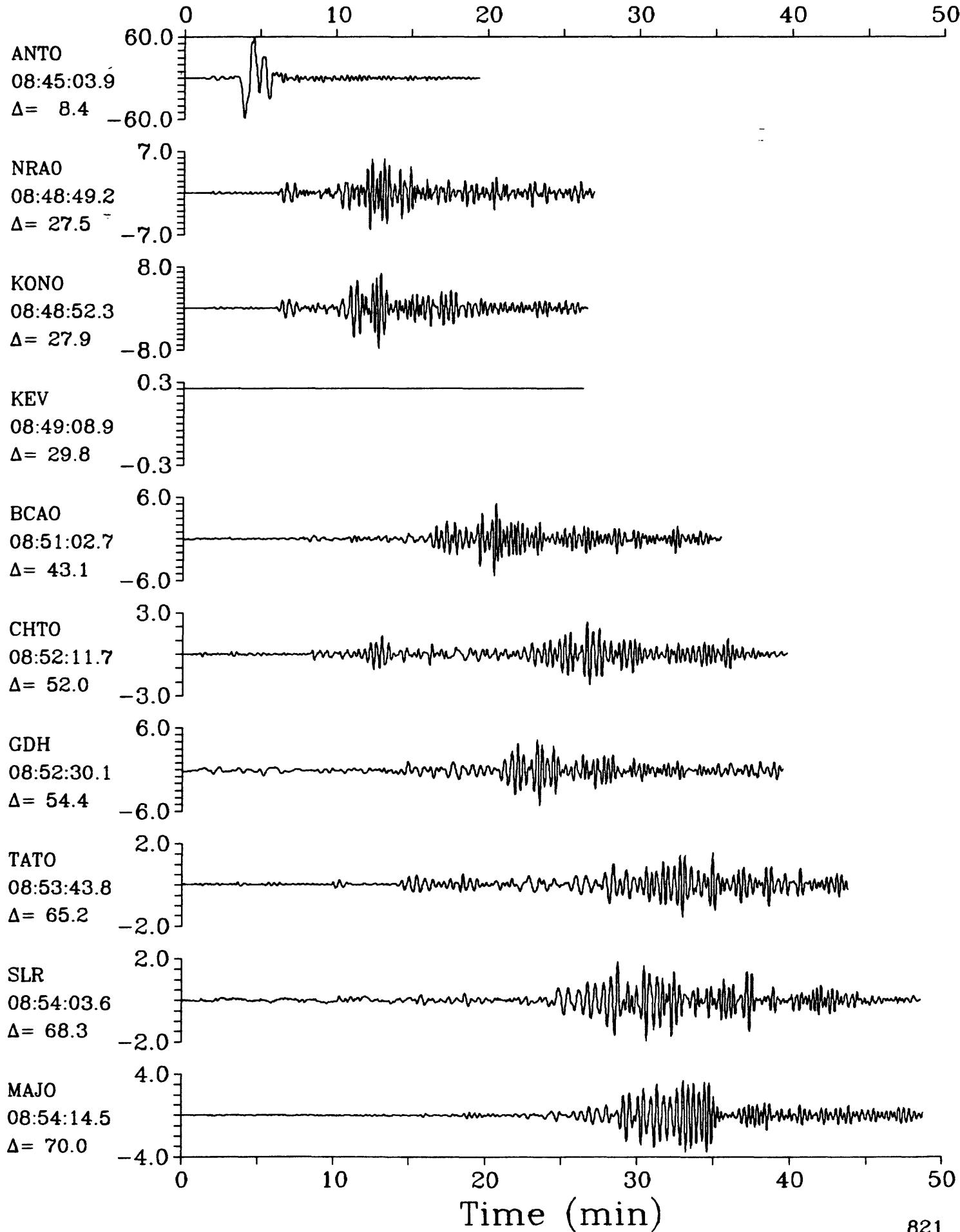
SPZ

13 May 1986 08:44:02.05

SPZ

Turkey-USSR Border Region $h=10.0$ $m_b=5.6$ $M_{sz}=5.4$ 

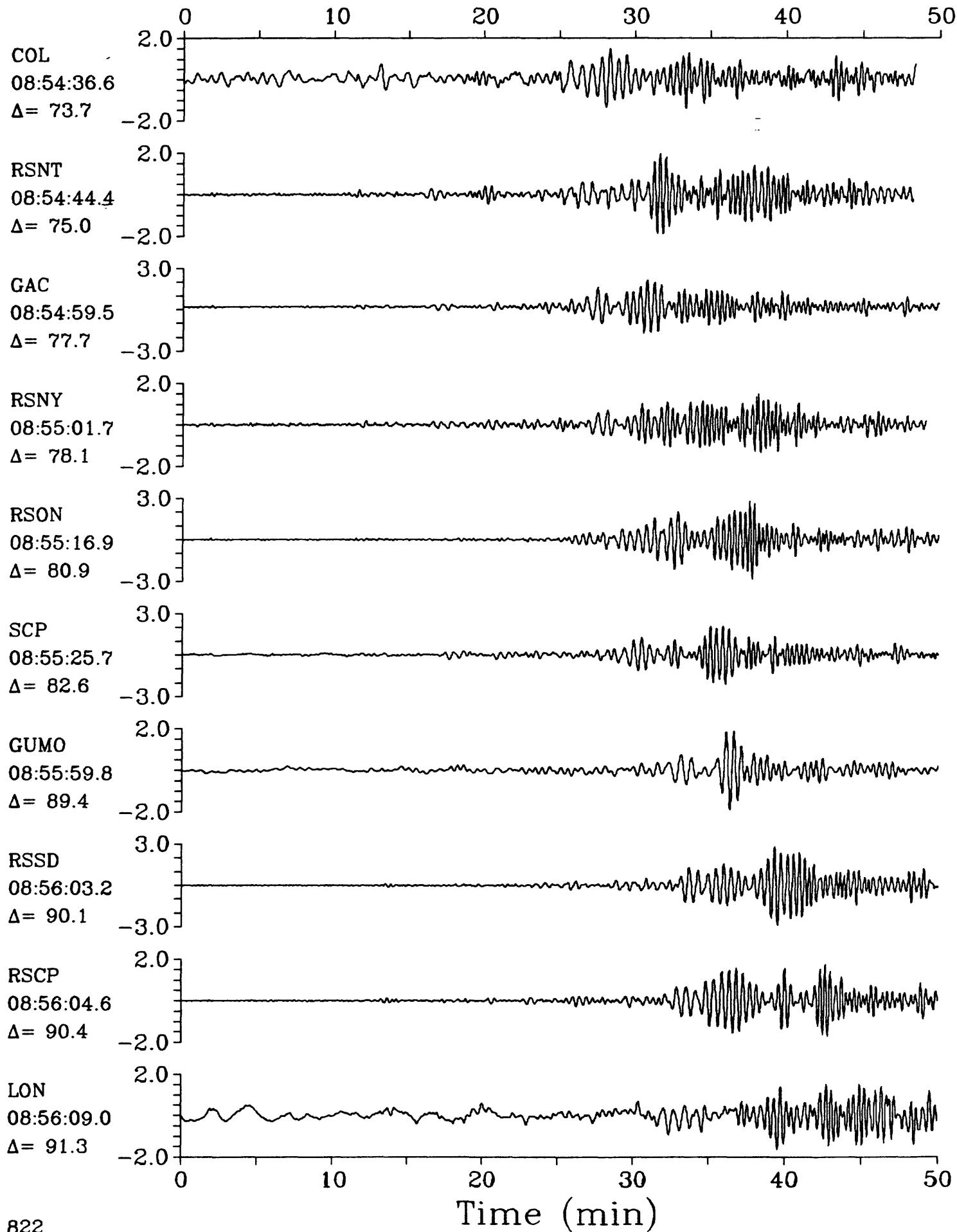
LPZ 13 May 1986 08:44:02.05 LPZ
Turkey-USSR Border Region $h=10.0$ $m_b=5.6$ $M_{SZ}=5.4$



LPZ

13 May 1986 08:44:02.05

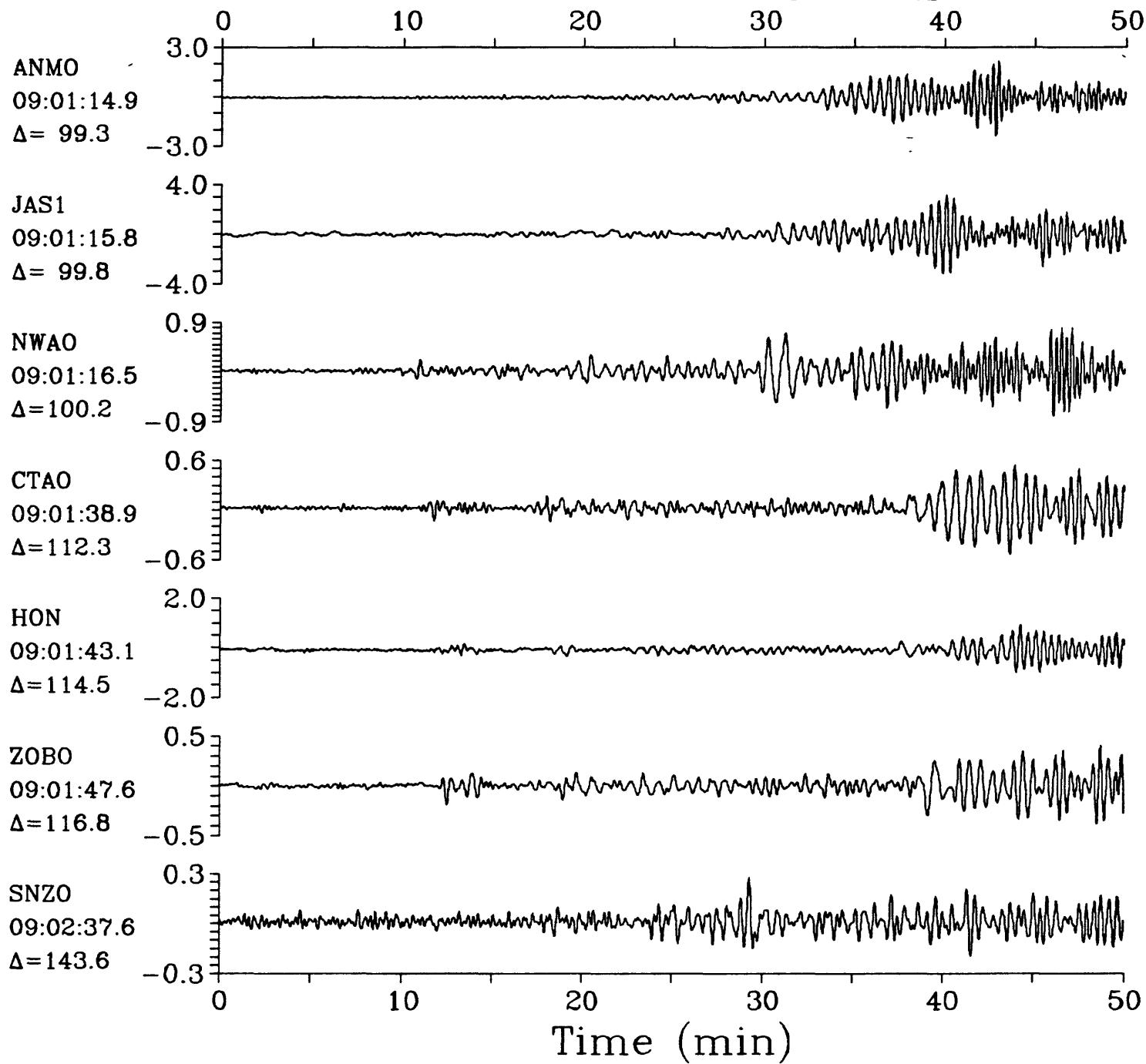
LPZ

Turkey-USSR Border Region $h=10.0$ $m_b=5.6$ $M_{sz}=5.4$ 

LPZ

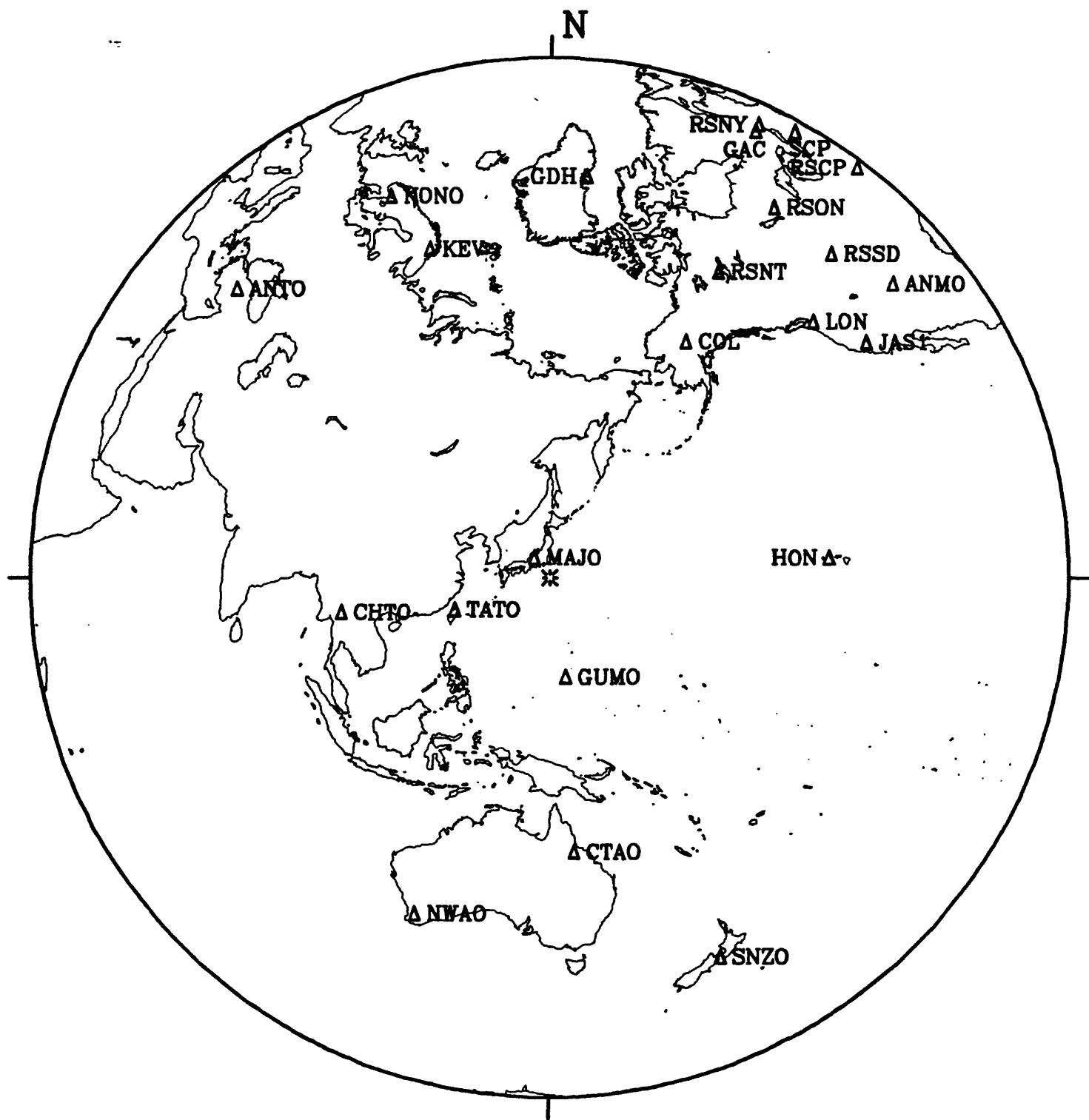
13 May 1986 08:44:02.05

LPZ

Turkey-USSR Border Region $h=10.0$ $m_b=5.6$ $M_{SZ}=5.4$ 

13 May 1986 22:00:08.66

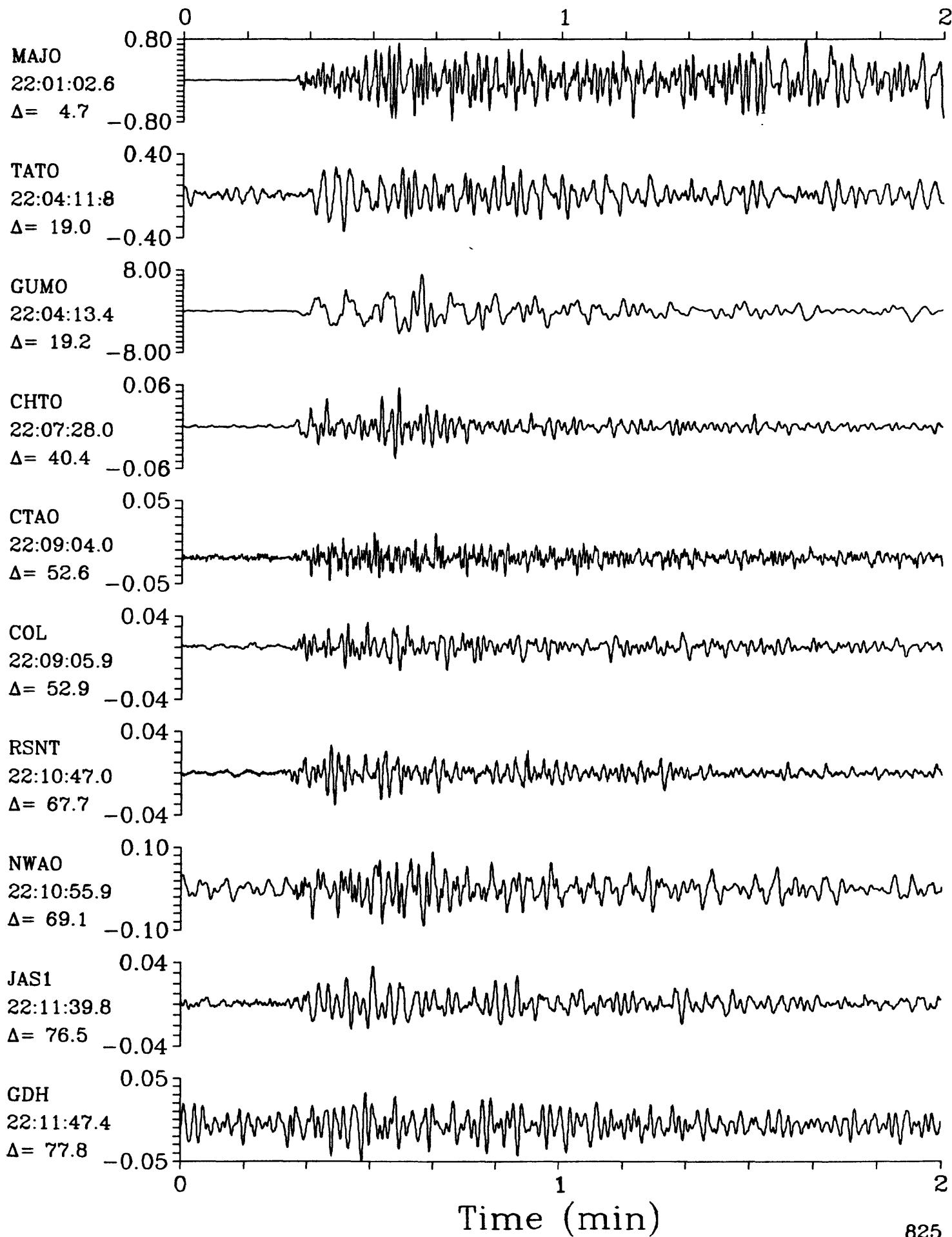
South of Honshu, Japan



SPZ

13 May 1986 22:00:08.66

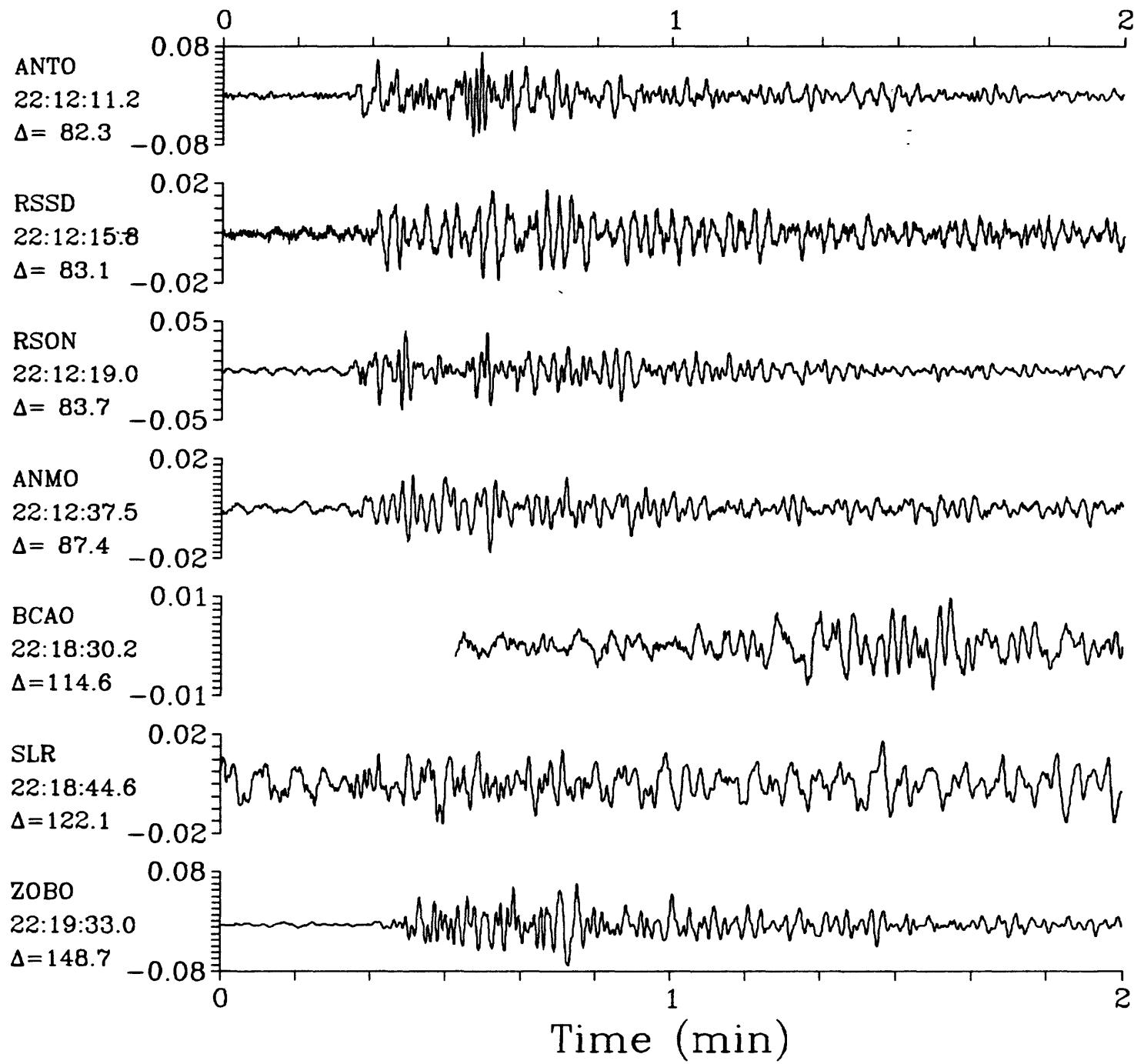
SPZ

South of Honshu, Japan $h=40.3$ $m_b=5.4$ $M_{sz}=5.6$ 

SPZ

13 May 1986 22:00:08.66

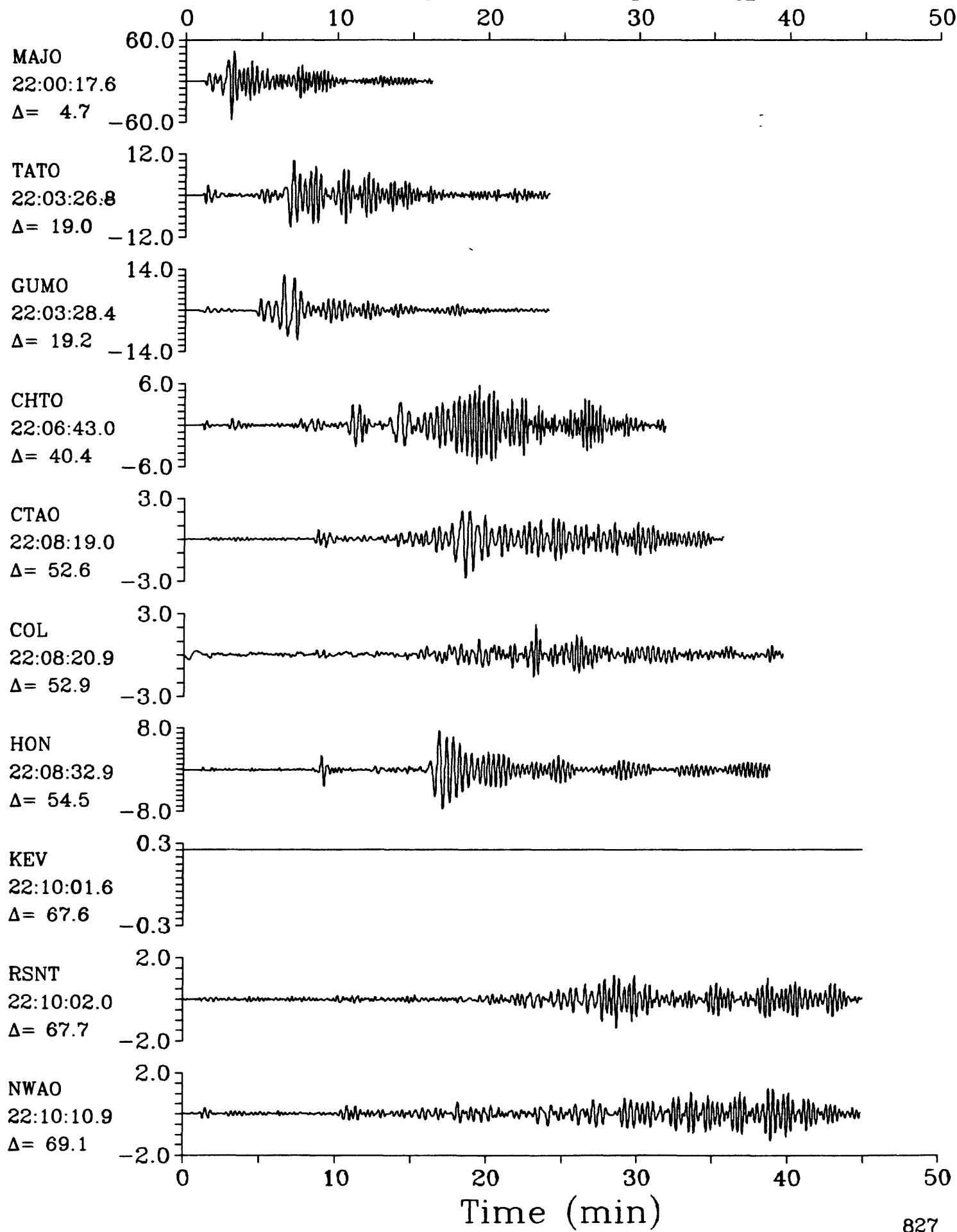
SPZ

South of Honshu, Japan $h=40.3$ $m_b=5.4$ $M_{sz}=5.6$ 

LPZ

13 May 1986 22:00:08.66

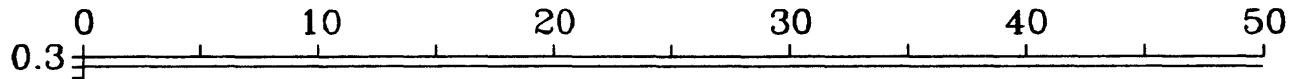
LPZ

South of Honshu, Japan $h=40.3$ $m_b=5.4$ $M_{sz}=5.6$ 

LPZ

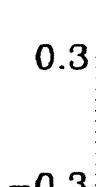
13 May 1986 22:00:08.66

LPZ

South of Honshu, Japan $h=40.3$ $m_b=5.4$ $M_{sz}=5.6$ 

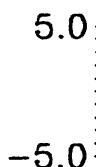
LON

22:10:24.3

 $\Delta = 71.3$ 

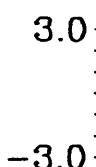
JAS1

22:10:54.8

 $\Delta = 76.5$ 

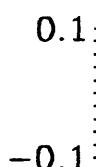
GDH

22:11:02.4

 $\Delta = 77.8$ 

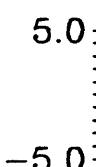
SNZO

22:11:12.6

 $\Delta = 79.7$ 

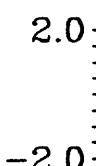
KONO

22:11:13.4

 $\Delta = 79.8$ 

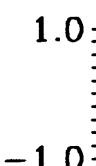
ANTO

22:11:26.2

 $\Delta = 82.3$ 

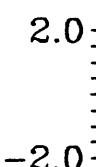
RSSD

22:11:30.8

 $\Delta = 83.1$ 

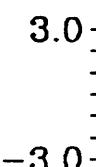
RSON

22:11:34.0

 $\Delta = 83.7$ 

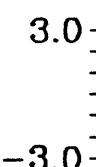
ANMO

22:11:52.5

 $\Delta = 87.4$ 

GAC

22:17:09.6

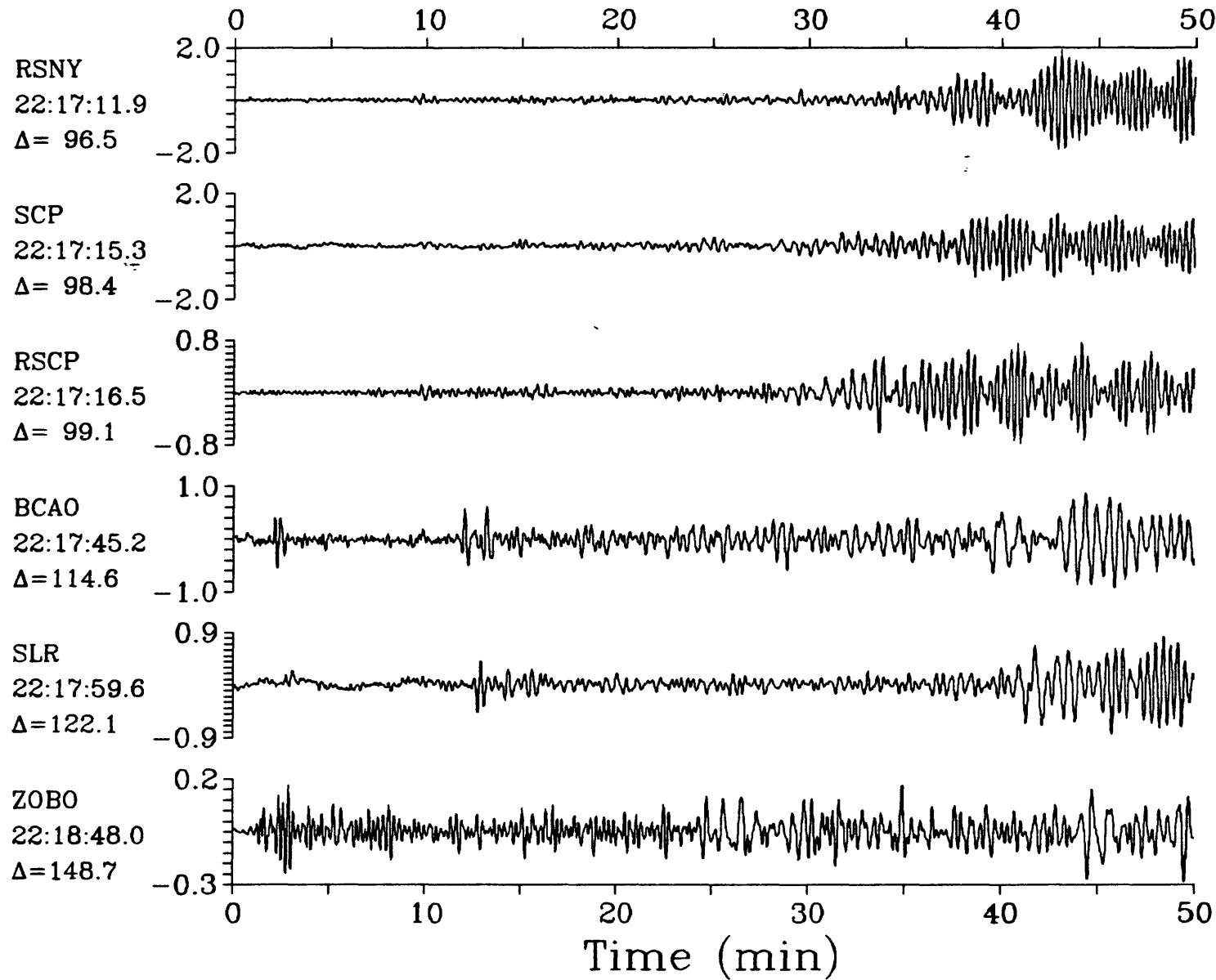
 $\Delta = 95.2$ 

Time (min)

LPZ

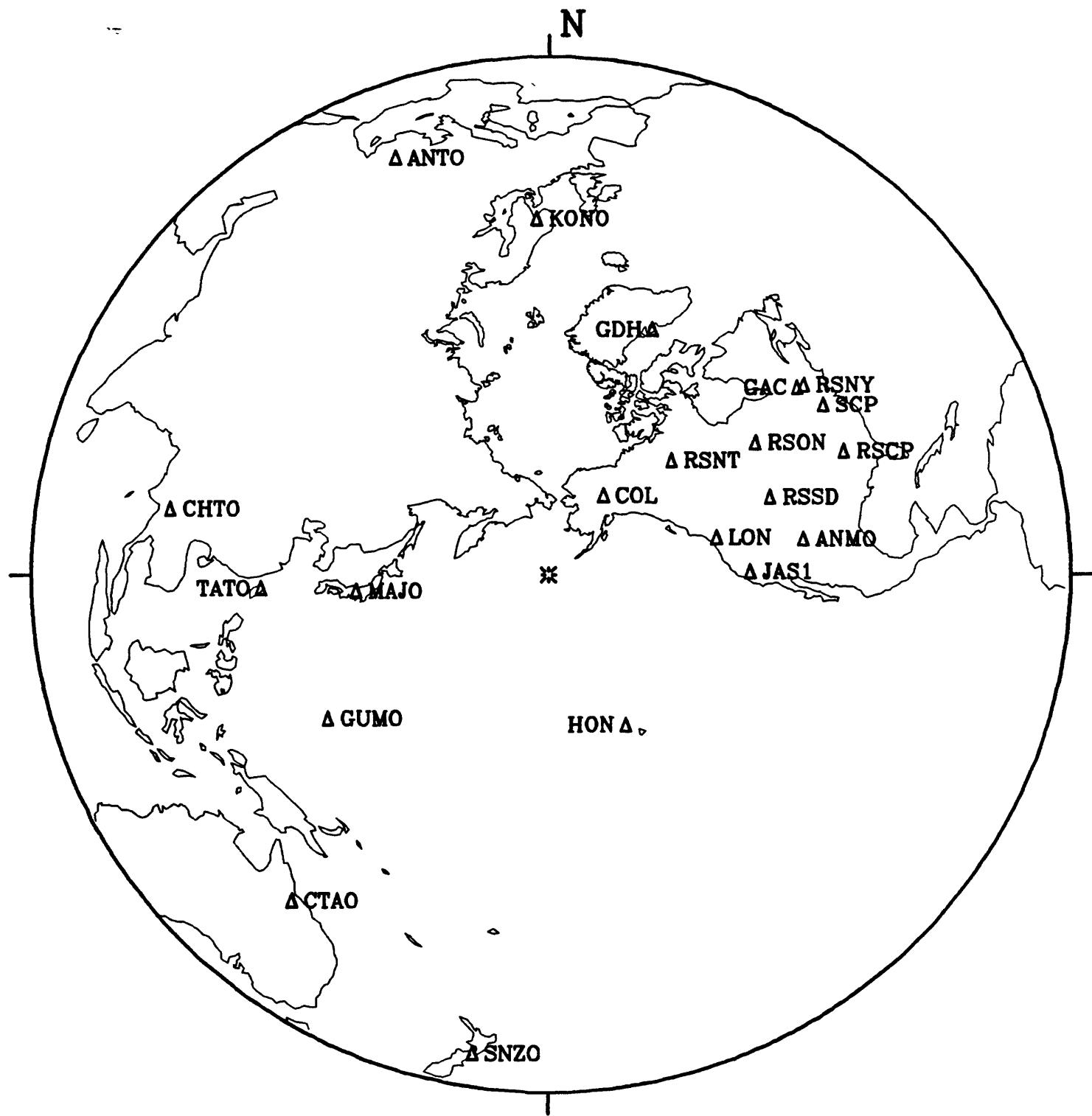
13 May 1986 22:00:08.66

LPZ

South of Honshu, Japan $h=40.3$ $m_b=5.4$ $M_{sz}=5.6$ 

14 May 1986 01:58:31.03

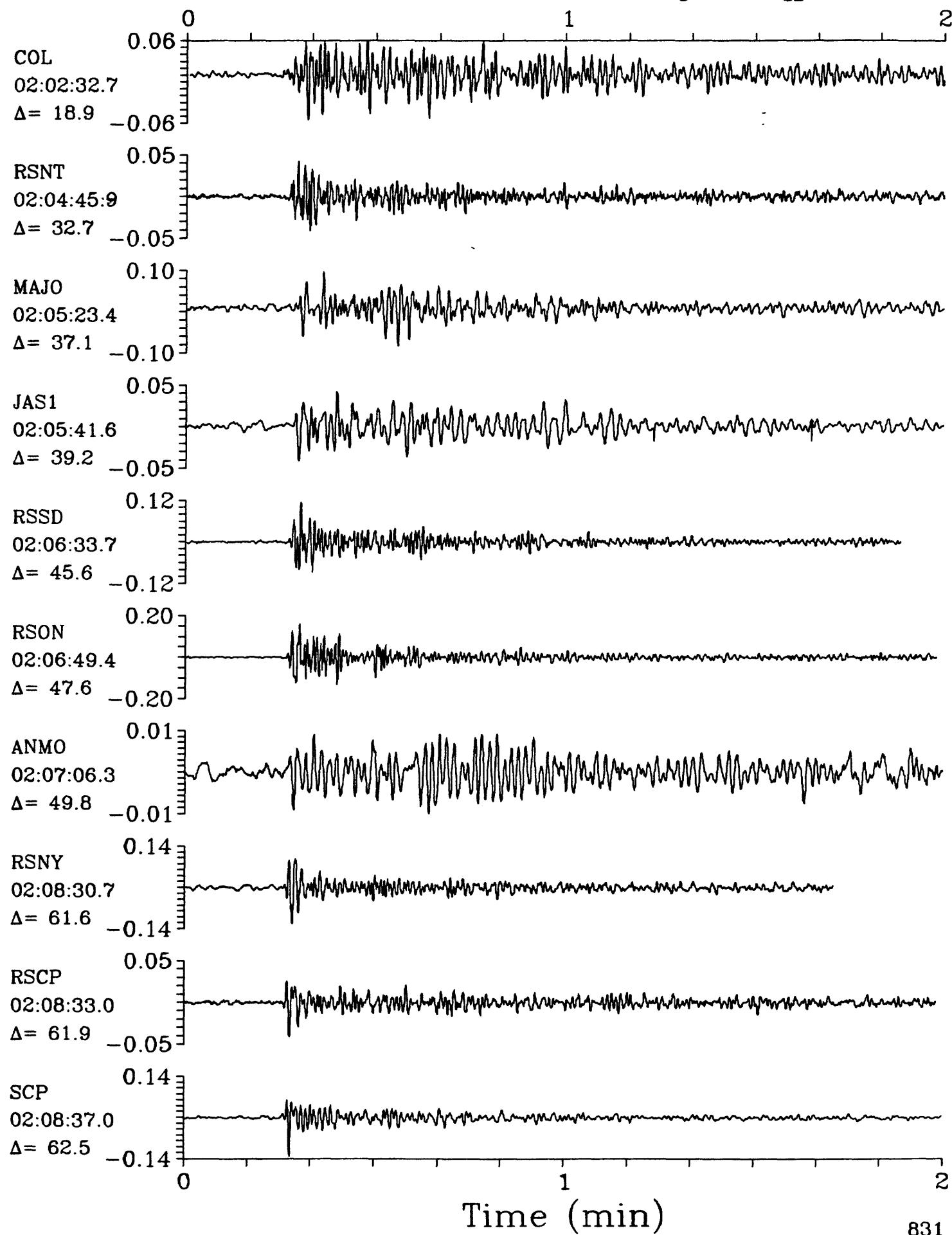
Andreanof Islands, Aleutian Is.



SPZ

14 May 1986 01:58:31.03

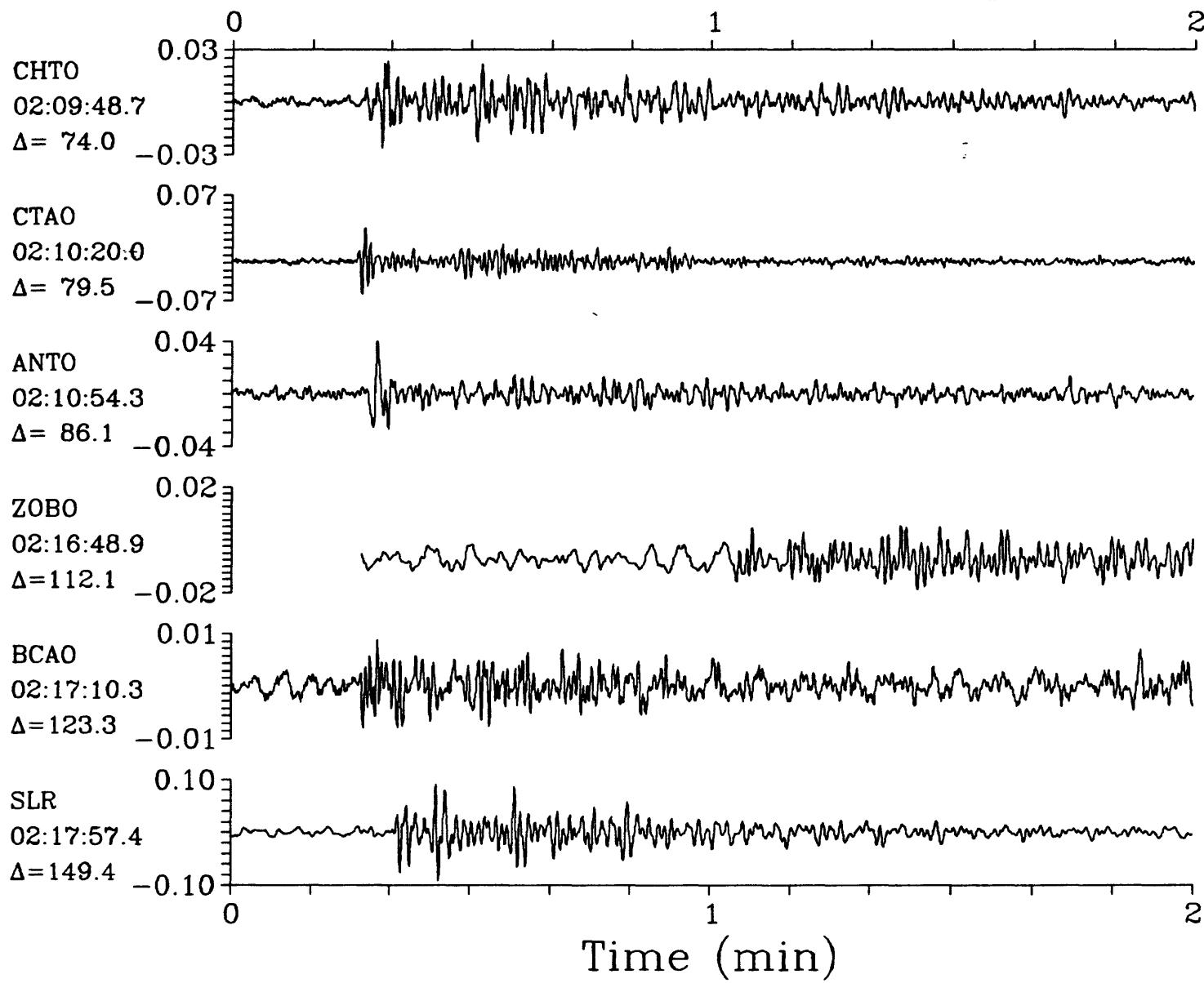
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ $M_{sz}=4.8$ 

SPZ

14 May 1986 01:58:31.03

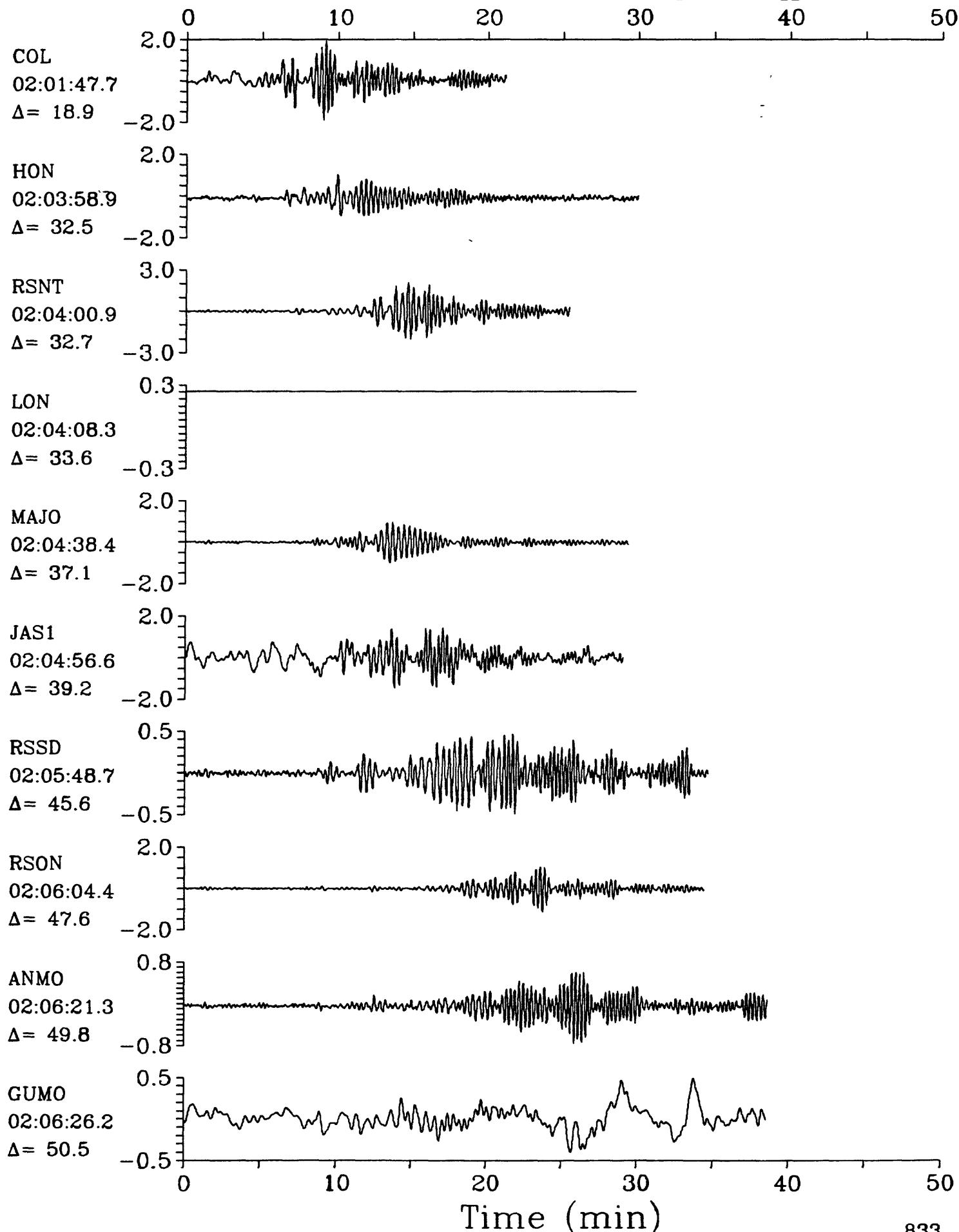
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ $M_{sz}=4.8$ 

LPZ

14 May 1986 01:58:31.03

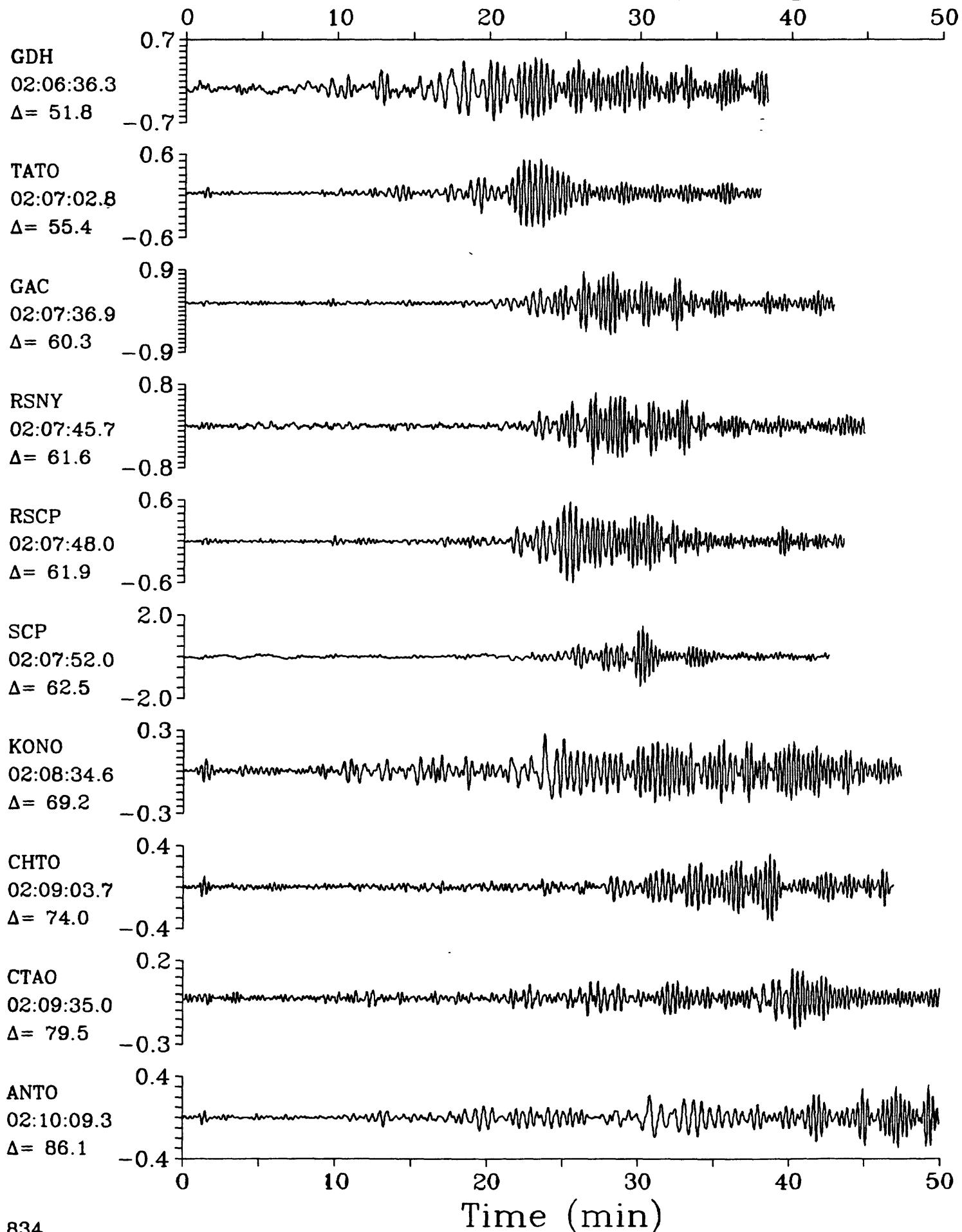
LPZ

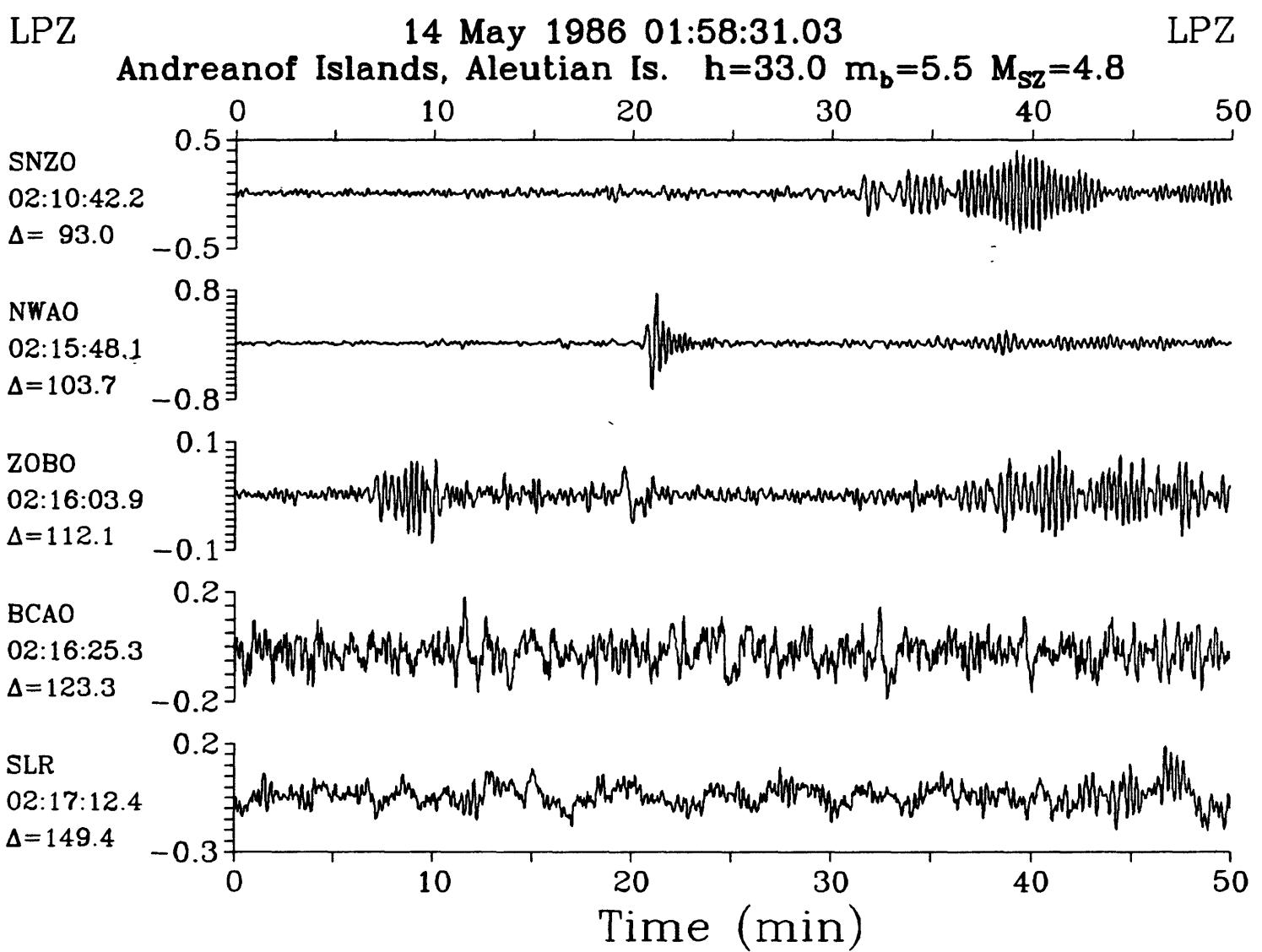
Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ $M_{sz}=4.8$ 

LPZ

14 May 1986 01:58:31.03

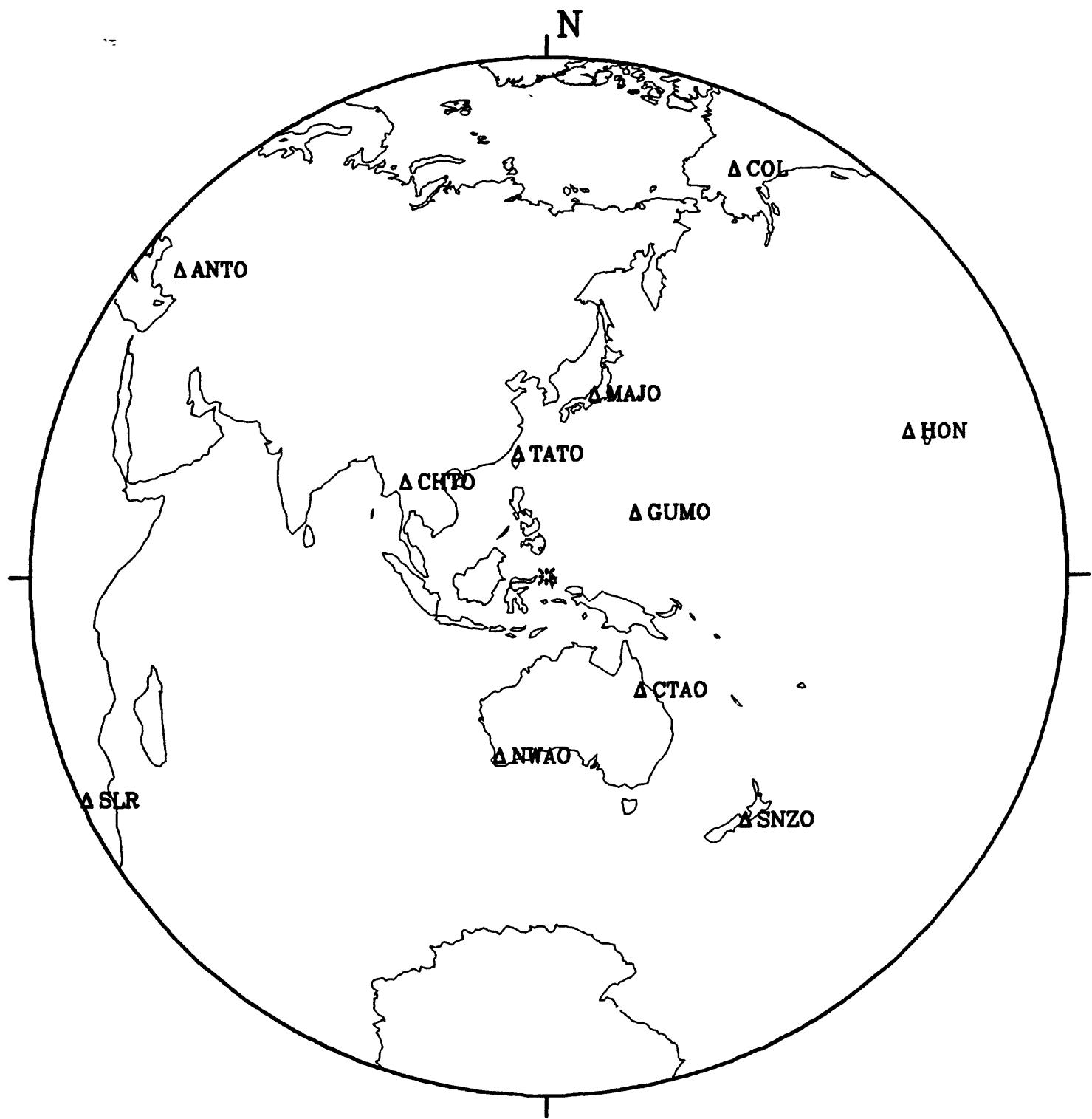
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.5$ $M_{SZ}=4.8$ 



14 May 1986 03:04:05.44

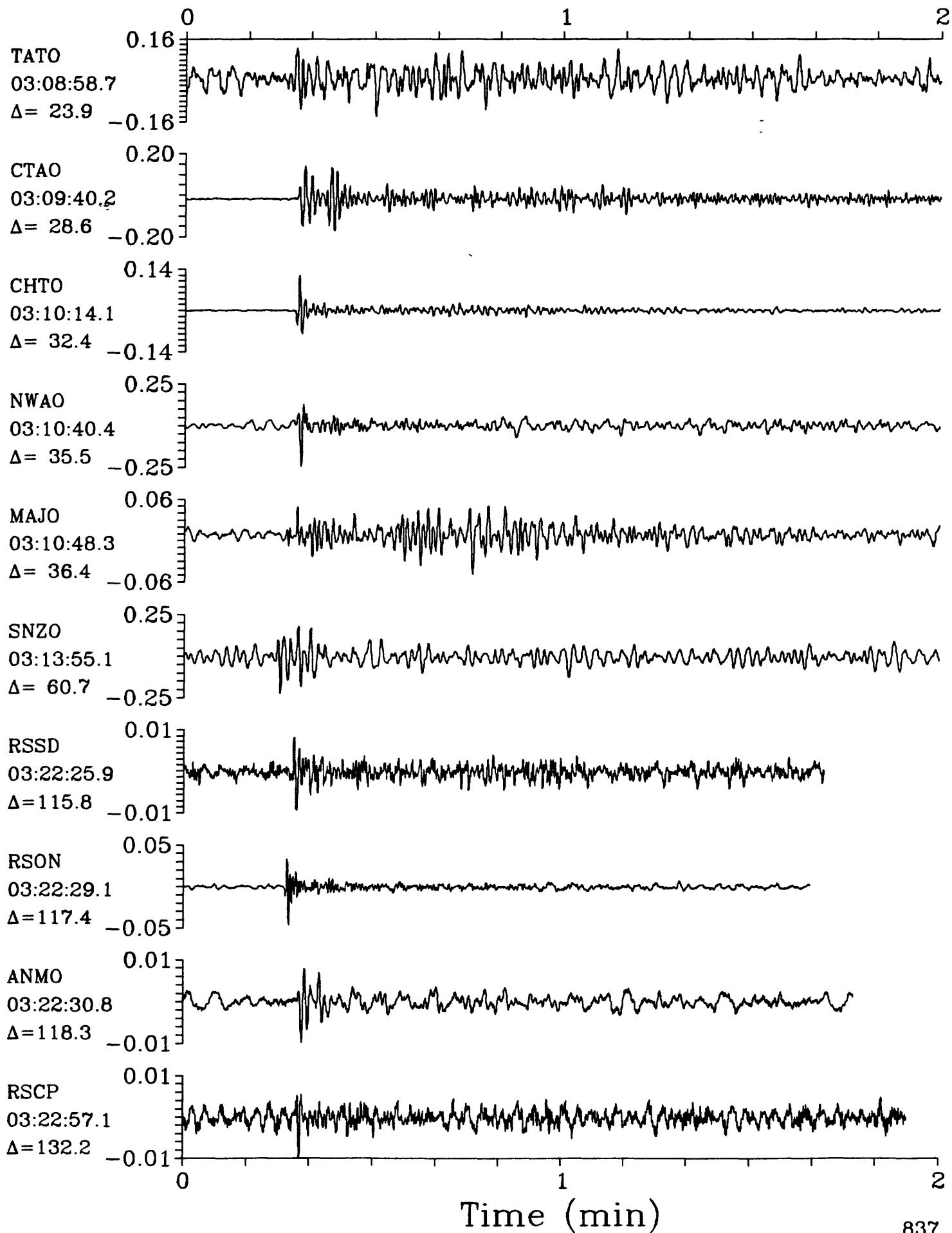
Halmahera



SPZ

14 May 1986 03:04:05.44
Halmahera $h=67.8$ $m_b=5.6$

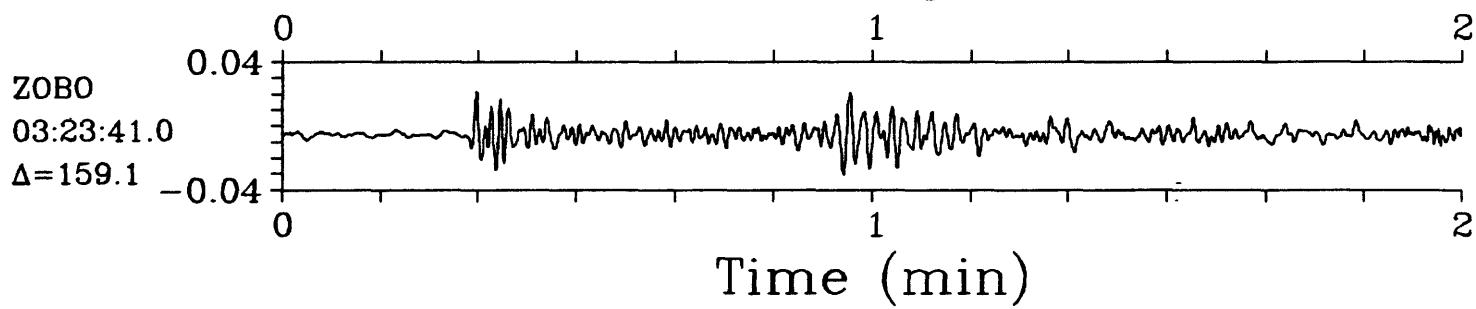
SPZ



SPZ

14 May 1986 03:04:05.44
Halmahera h=67.8 m_b=5.6

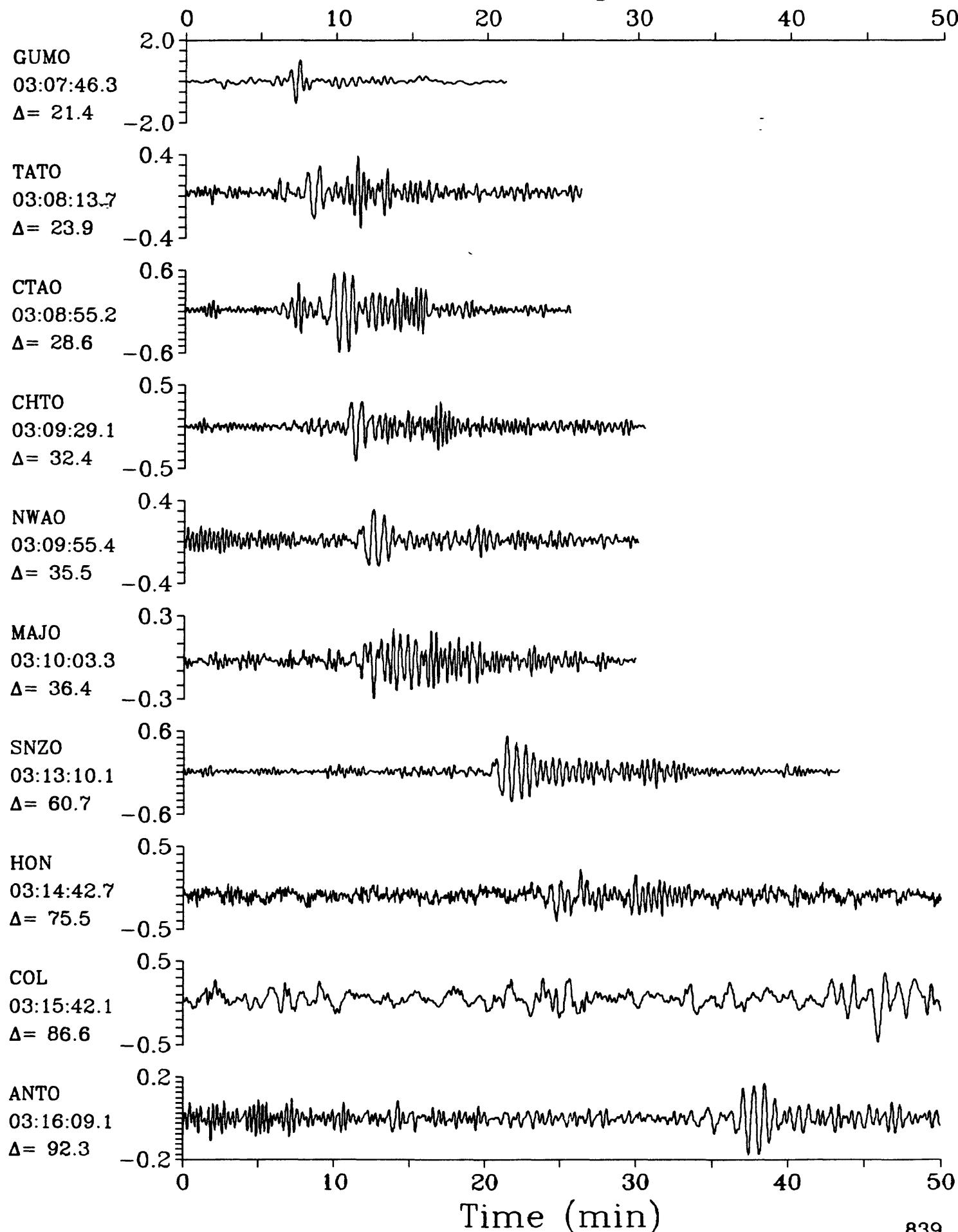
SPZ



LPZ

14 May 1986 03:04:05.44
Halmahera h=67.8 m_b=5.6

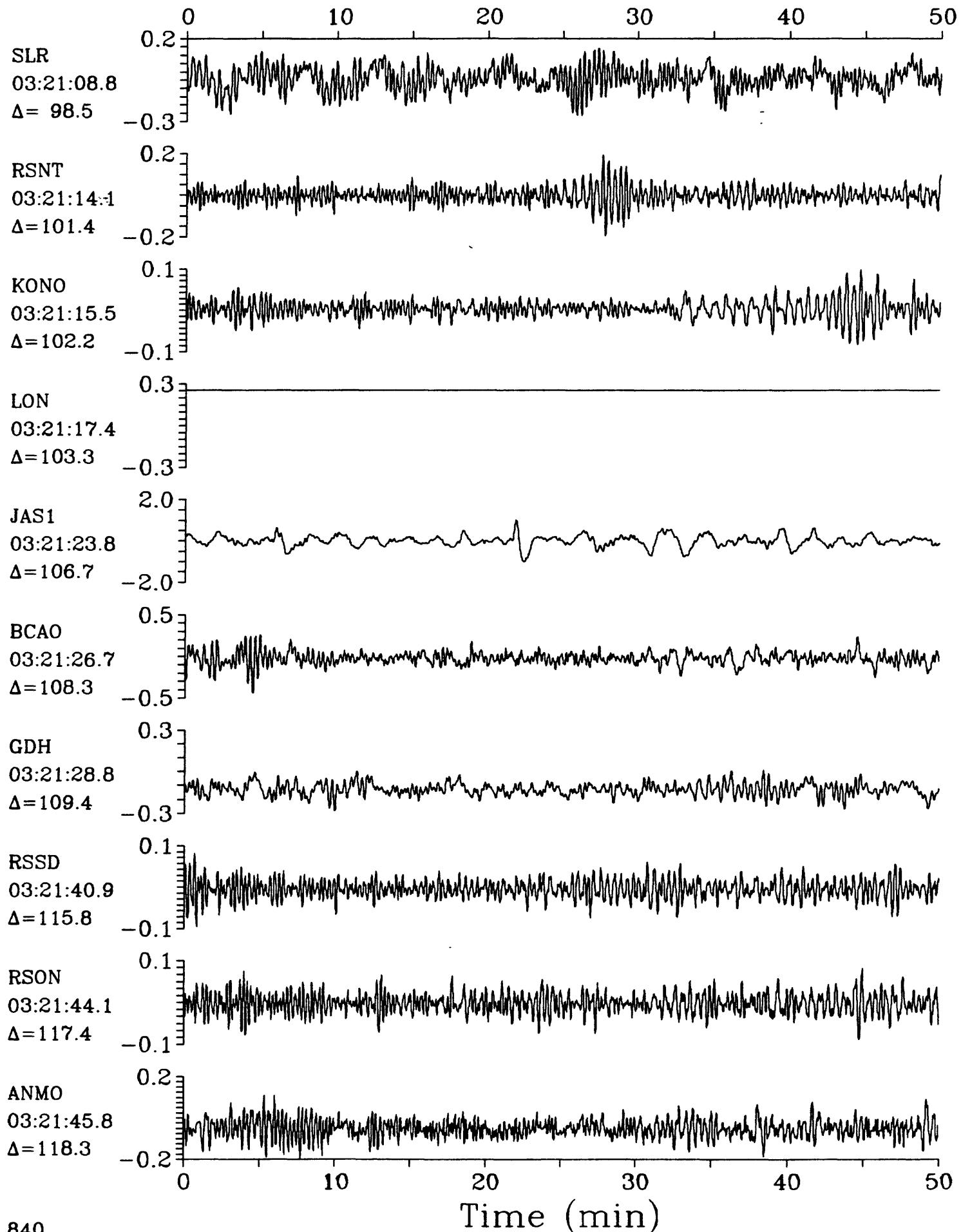
LPZ



LPZ

14 May 1986 03:04:05.44
Halmahera $h=67.8$ $m_b=5.6$

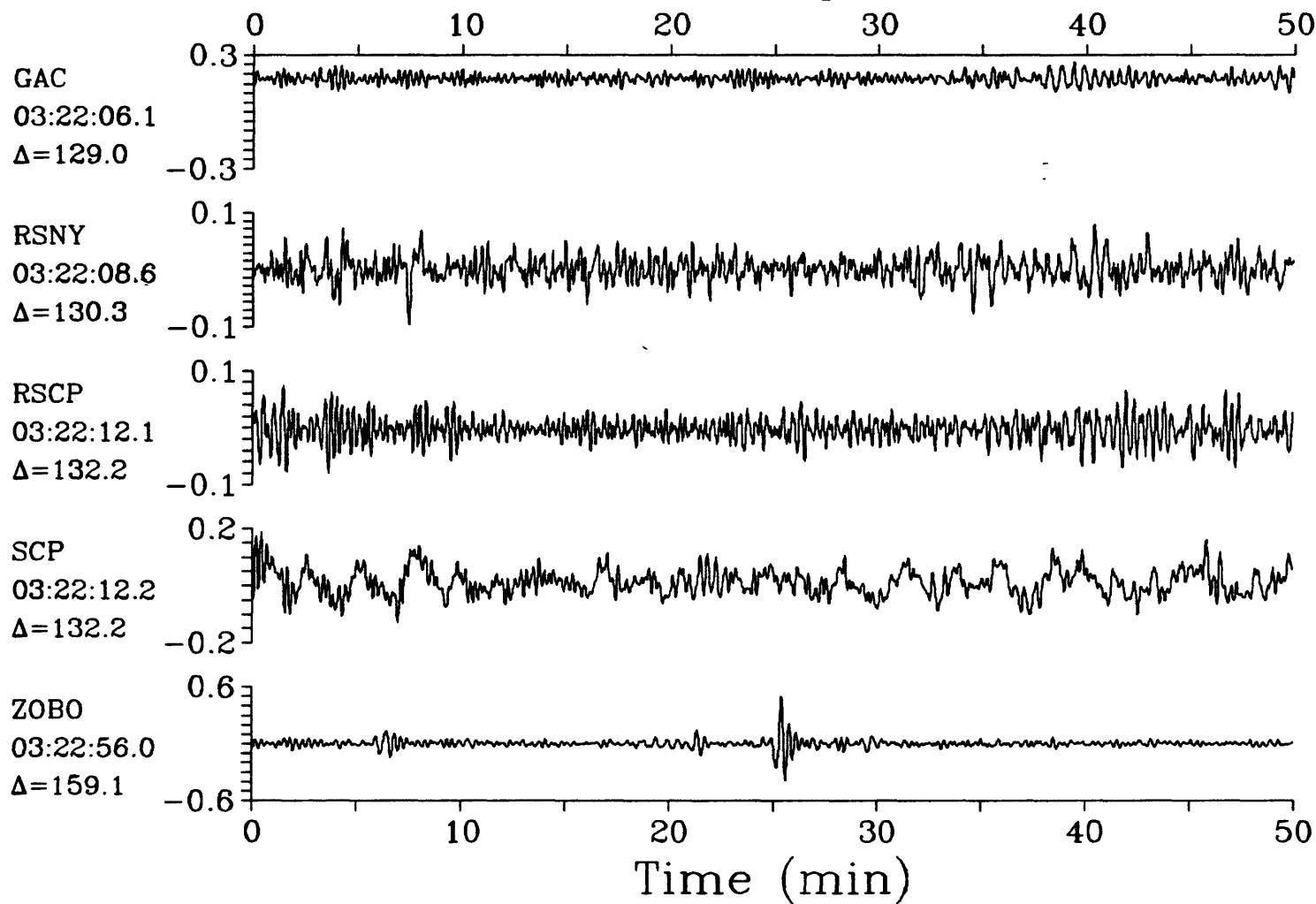
LPZ



LPZ

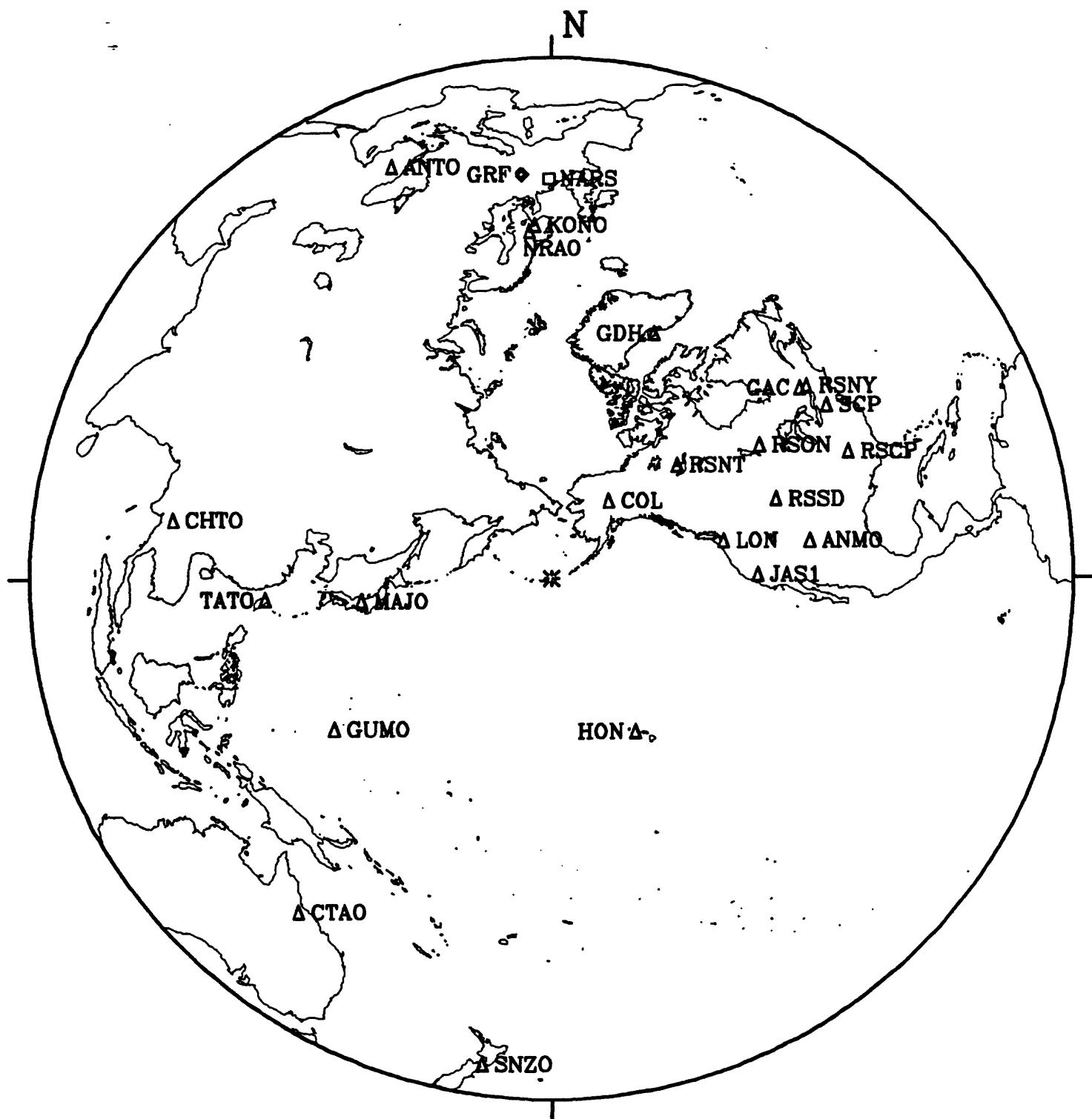
14 May 1986 03:04:05.44
Halmahera h=67.8 m_b=5.6

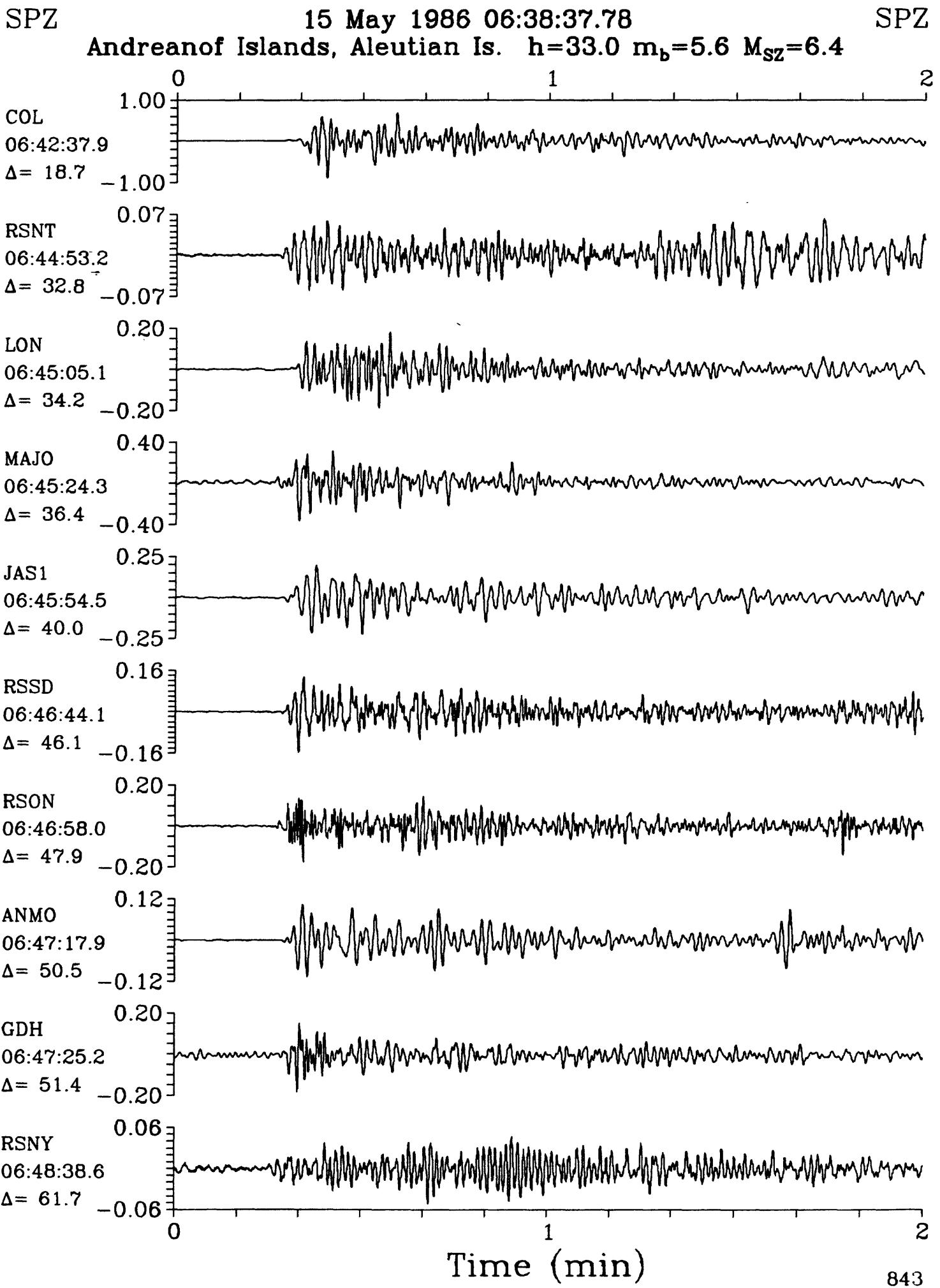
LPZ



15 May 1986 06:38:37.78

Andreanof Islands, Aleutian Is.

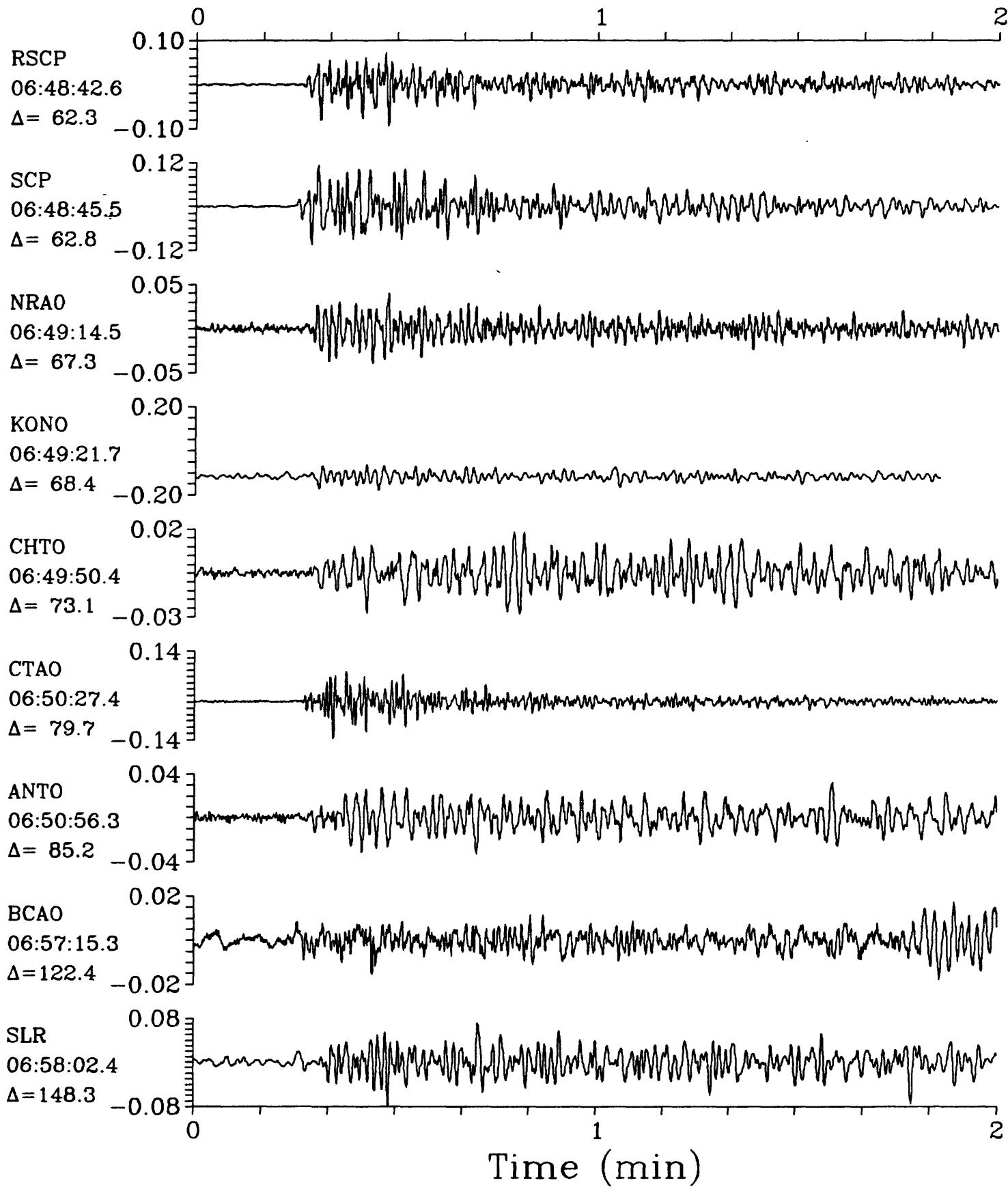




SPZ

15 May 1986 06:38:37.78

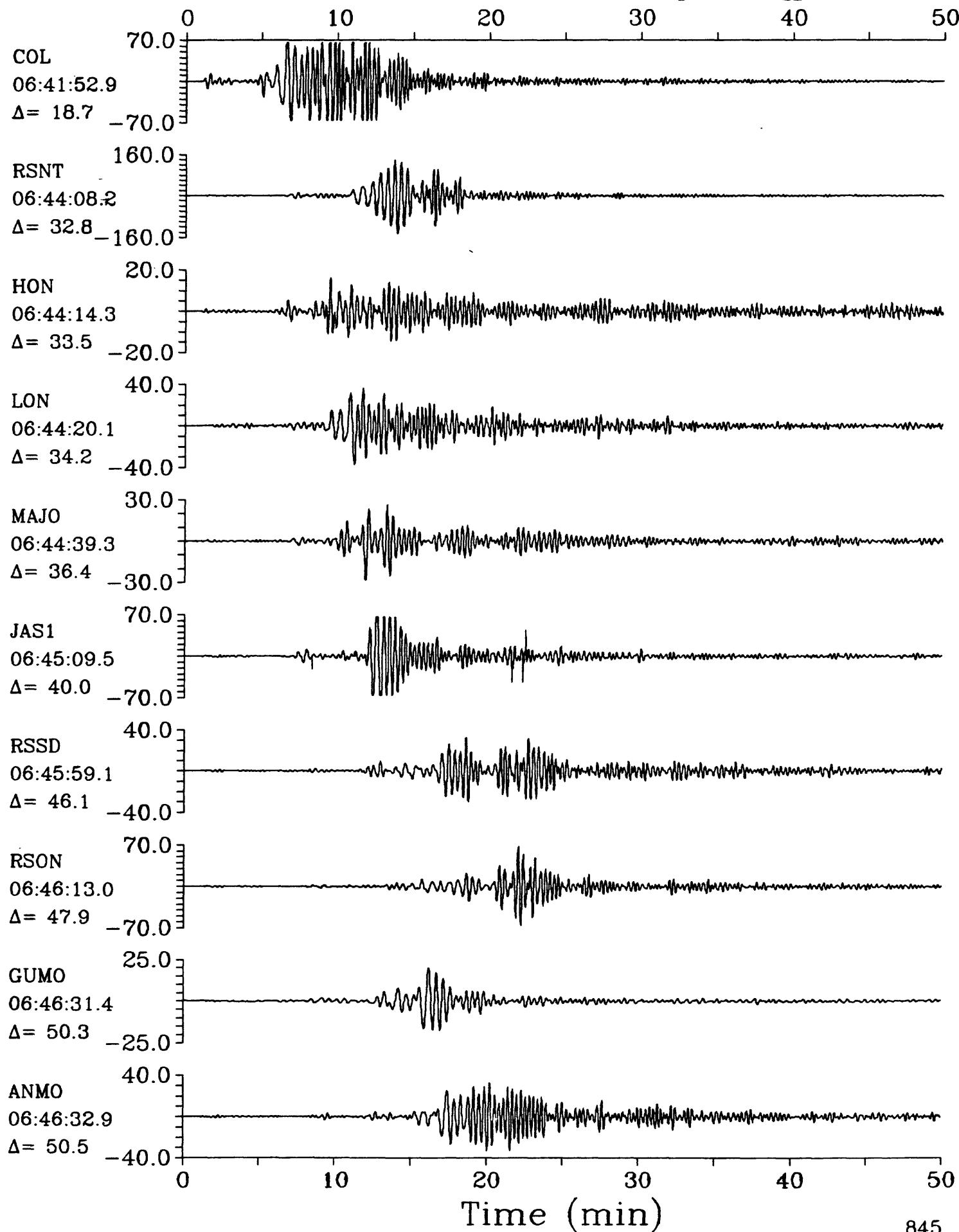
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=6.4$ 

LPZ

15 May 1986 06:38:37.78

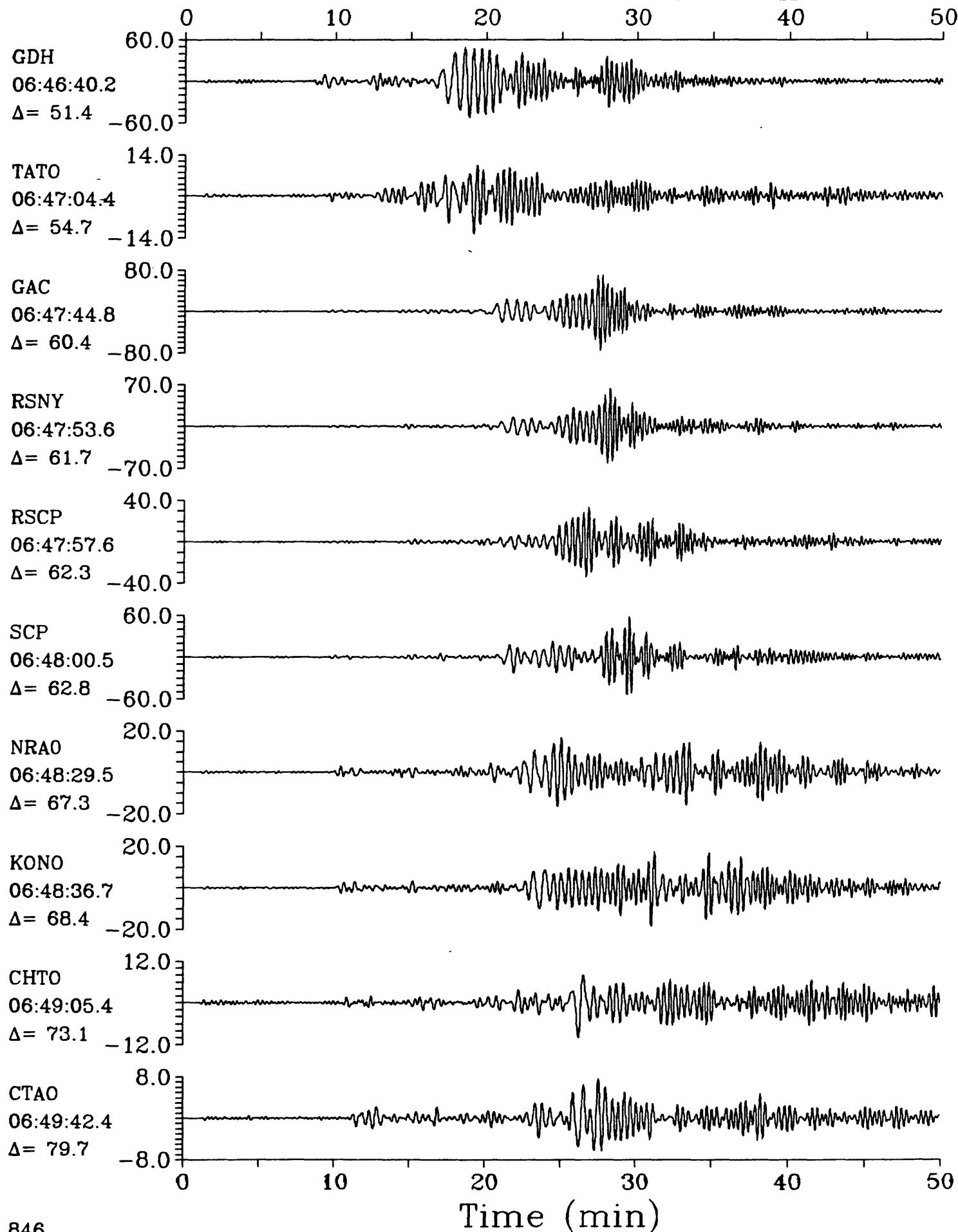
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=6.4$ 

LPZ

15 May 1986 06:38:37.78

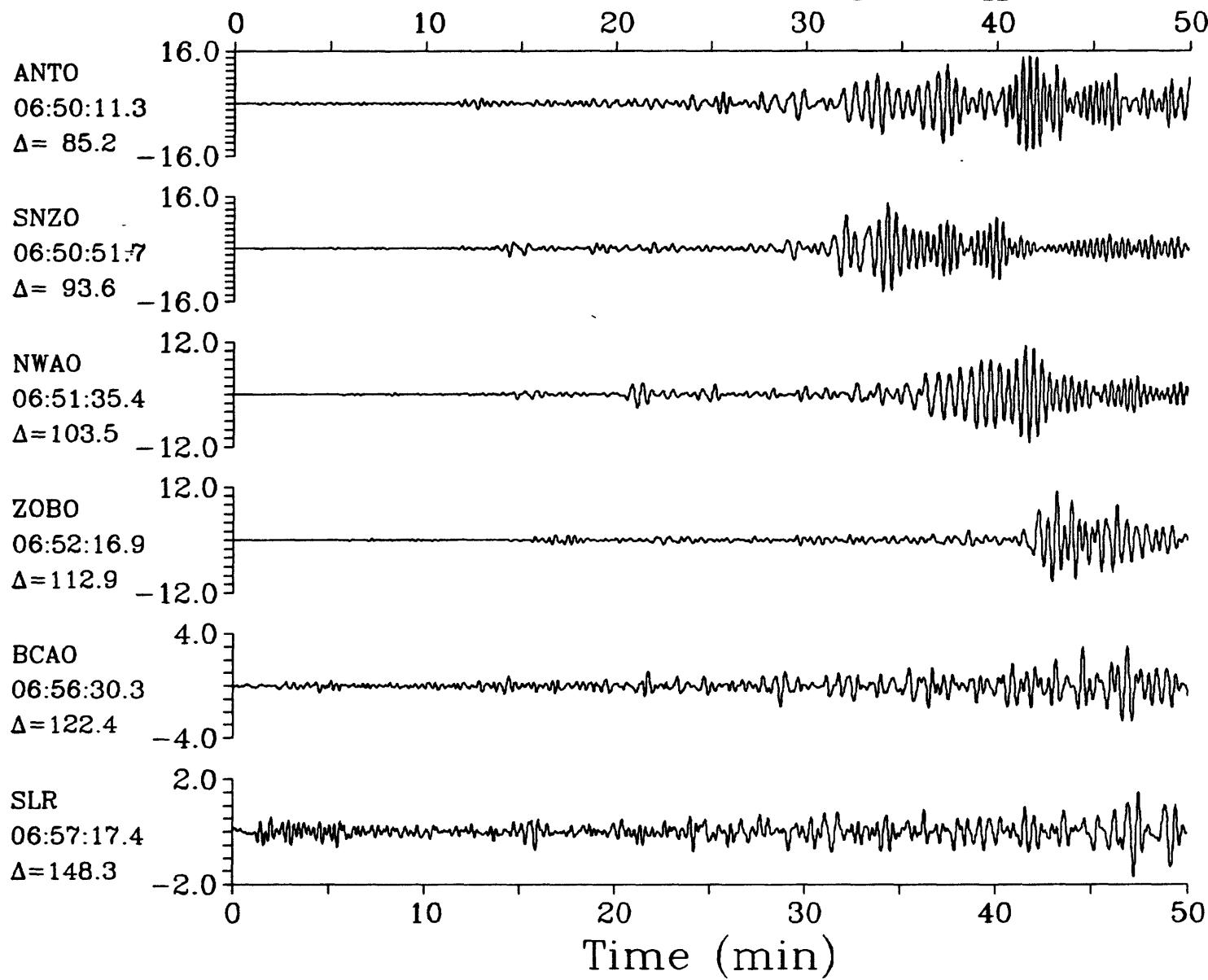
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=6.4$ 

LPZ

15 May 1986 06:38:37.78

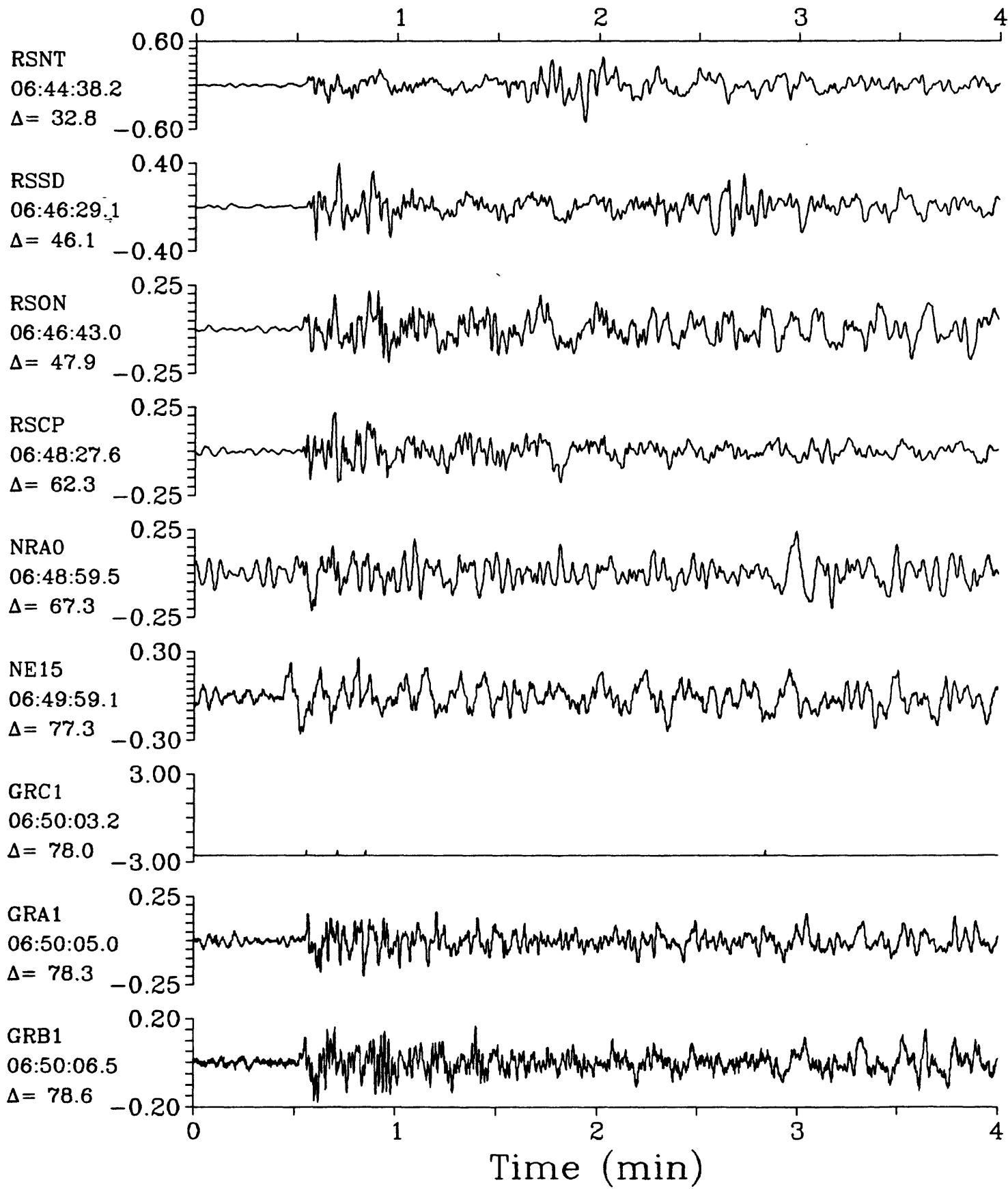
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{sz}=6.4$ 

IPZ

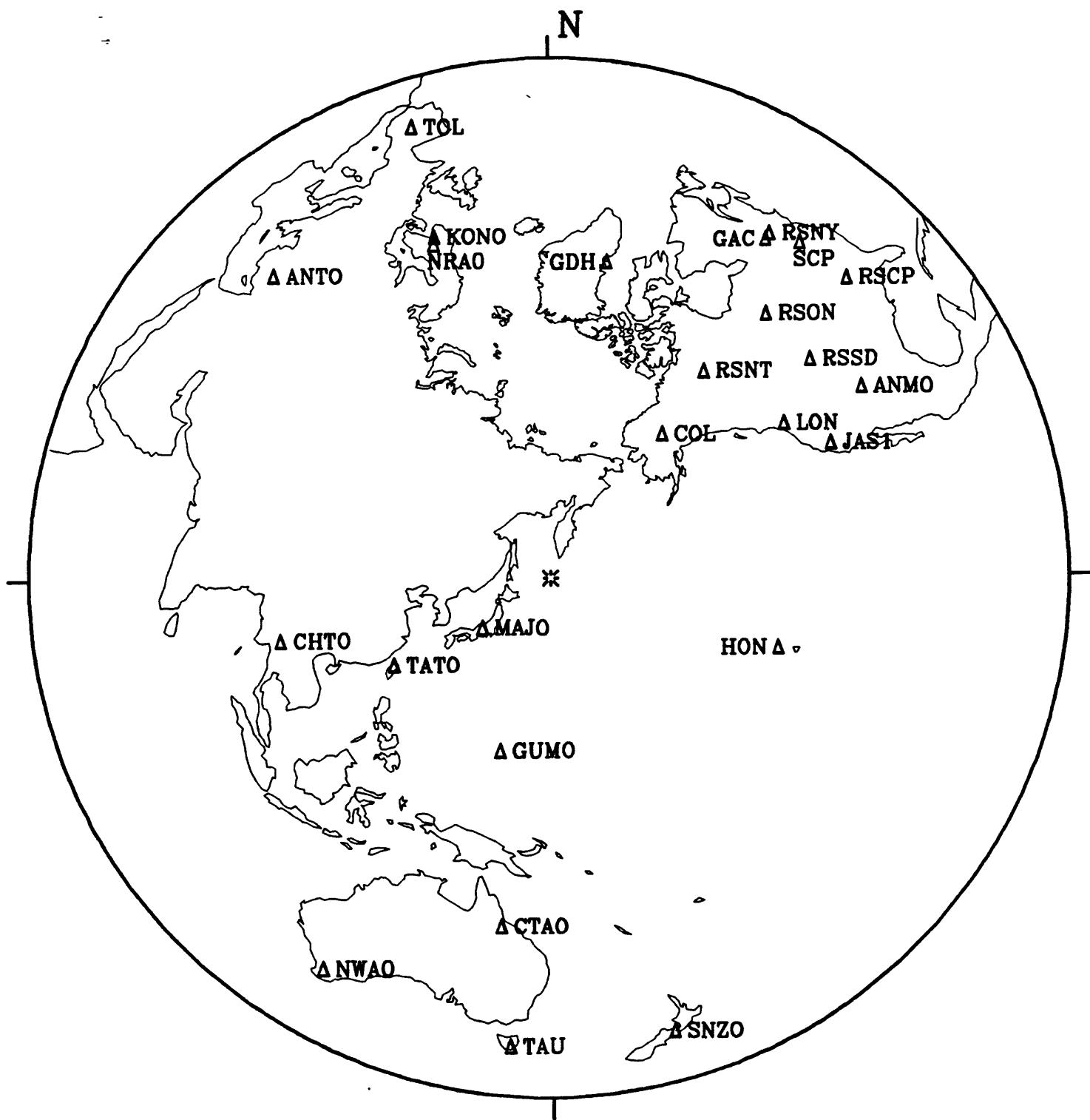
15 May 1986 06:38:37.78

IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.6$ $M_{SZ}=6.4$ 

16 May 1986 16:51:13.10

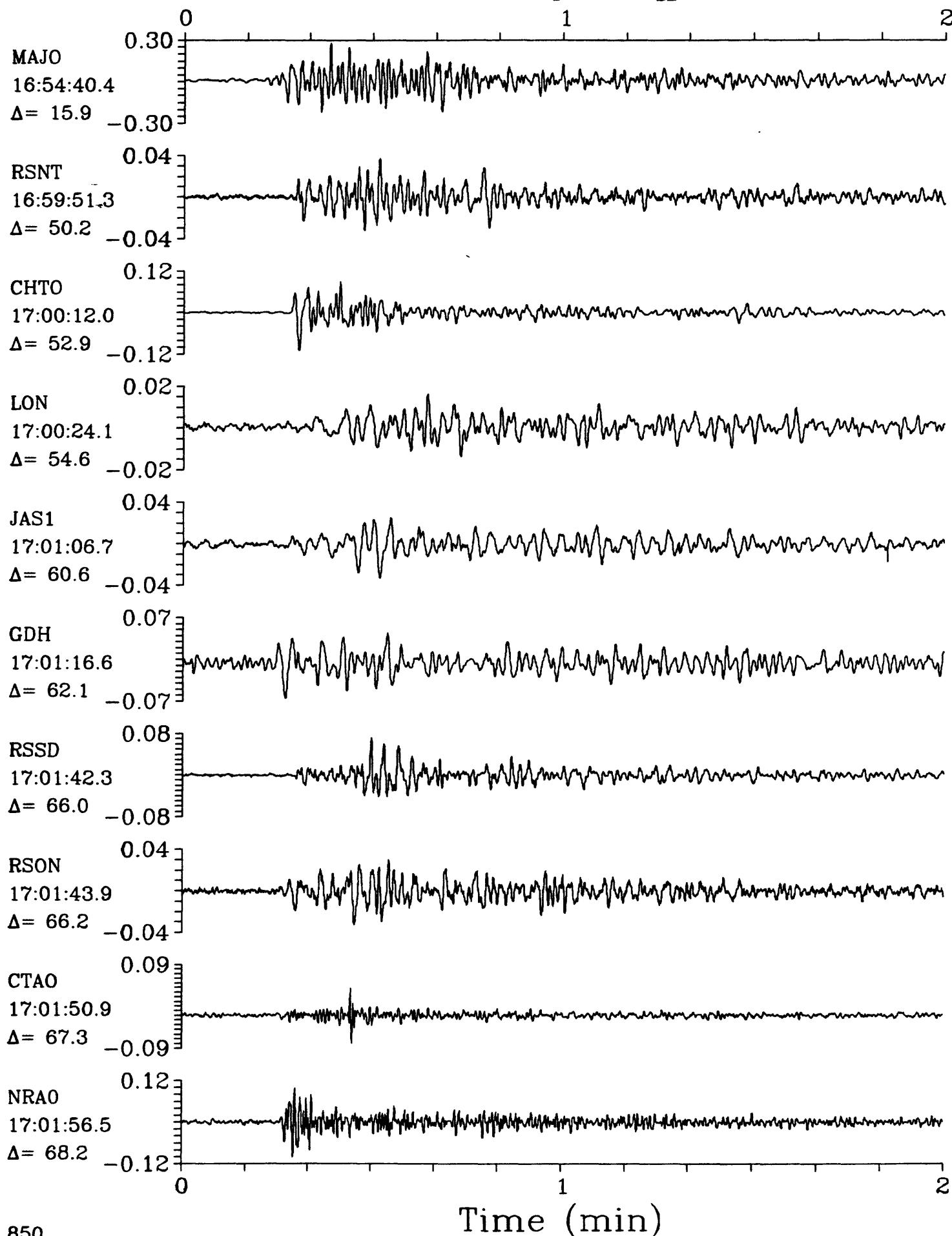
Kuril Islands



SPZ

16 May 1986 16:51:13.10
Kuril Islands $h=29.8$ $m_b=5.7$ $M_{sz}=5.5$

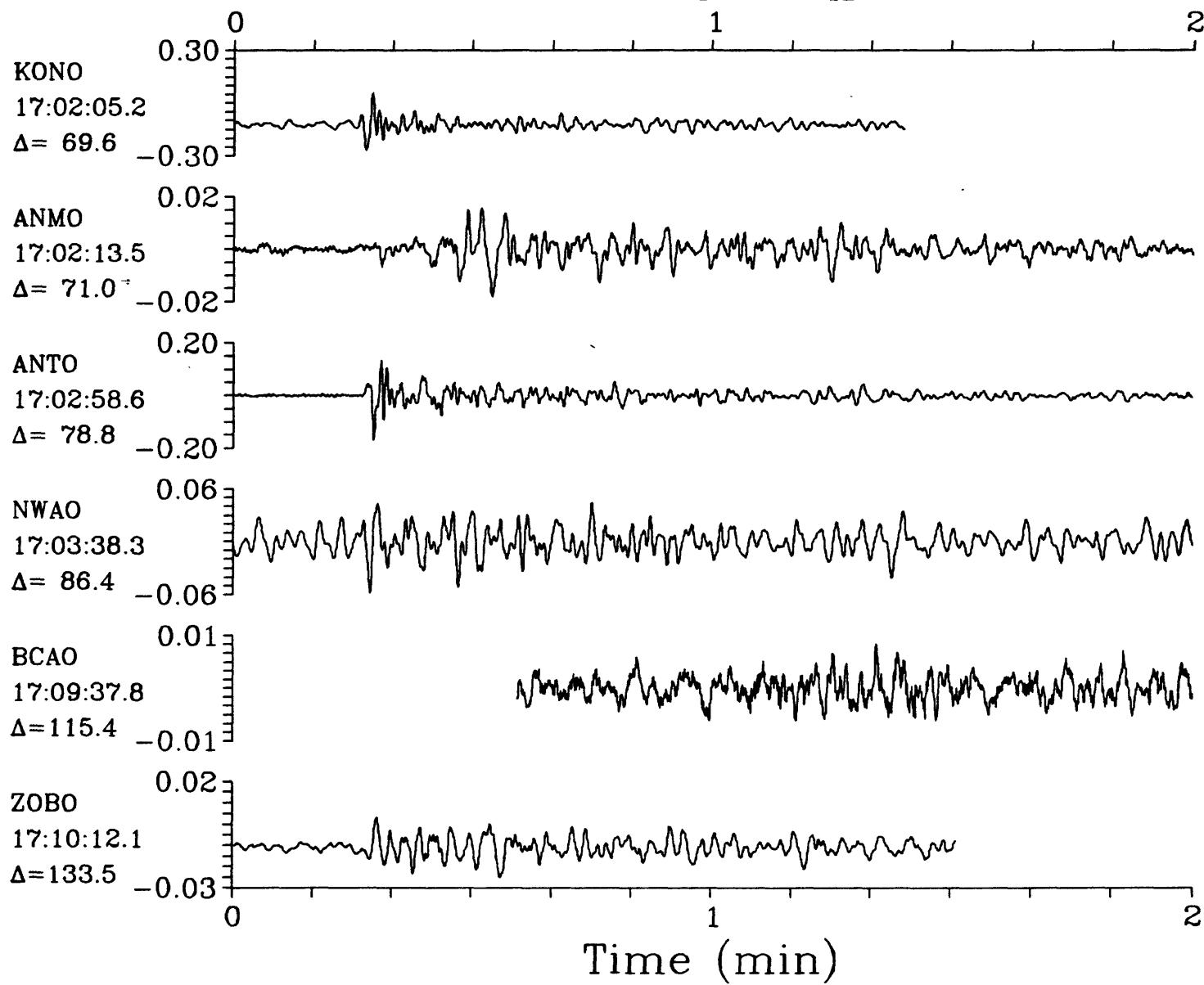
SPZ



SPZ

16 May 1986 16:51:13.10
Kuril Islands $h=29.8$ $m_b=5.7$ $M_{SZ}=5.5$

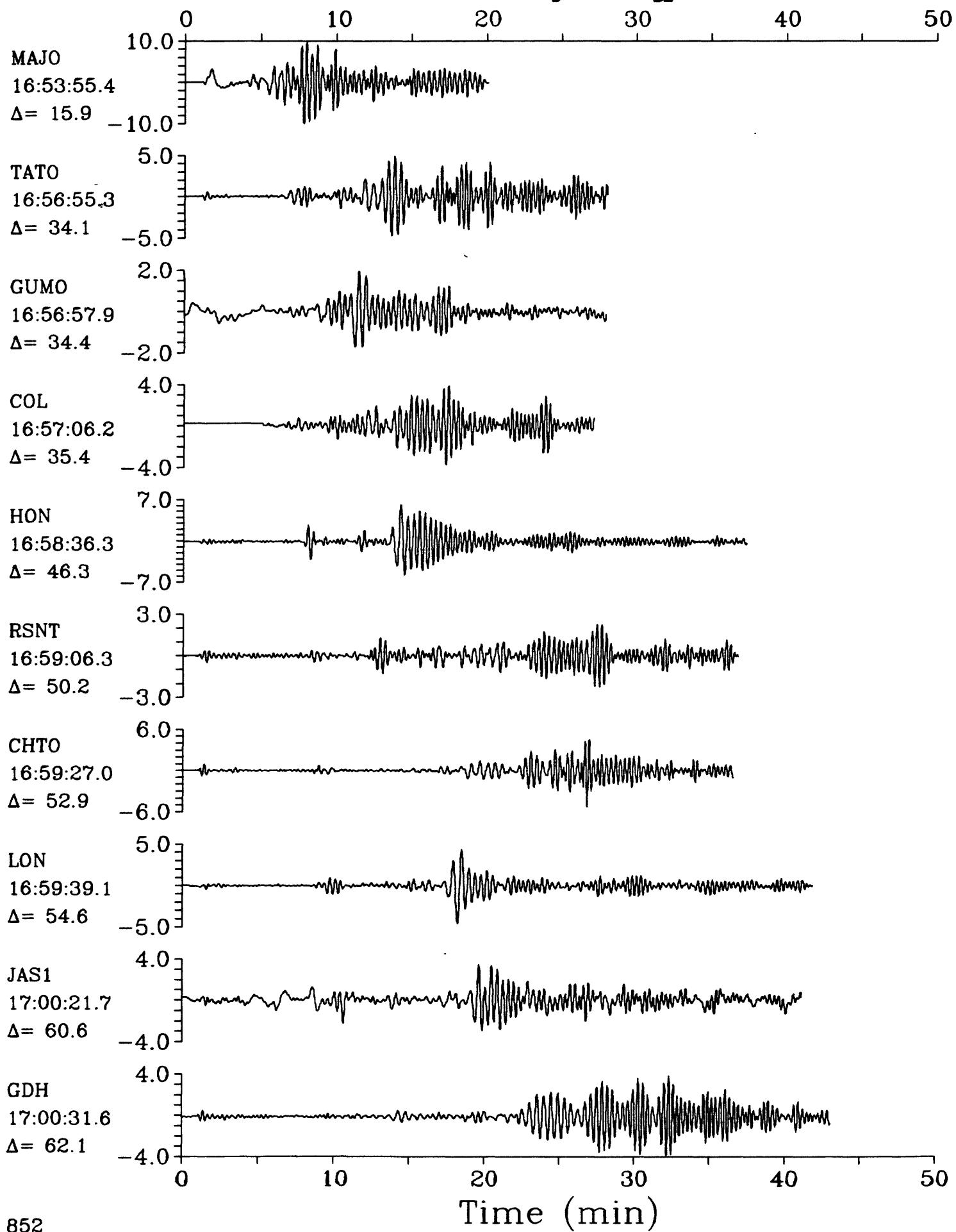
SPZ



LPZ

16 May 1986 16:51:13.10
Kuril Islands $h=29.8$ $m_b=5.7$ $M_{sz}=5.5$

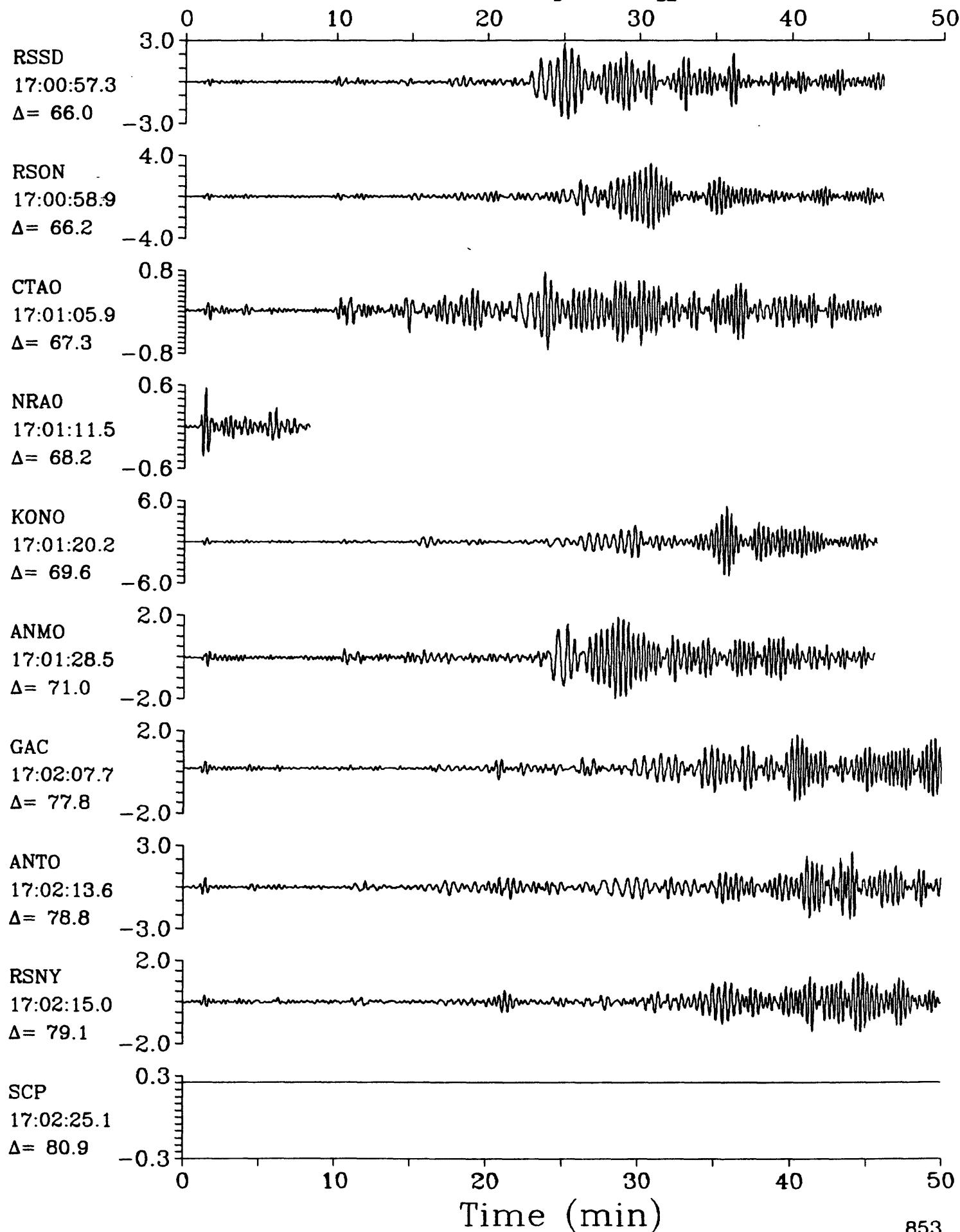
LPZ



LPZ

16 May 1986 16:51:13.10
Kuril Islands $h=29.8$ $m_b=5.7$ $M_{sz}=5.5$

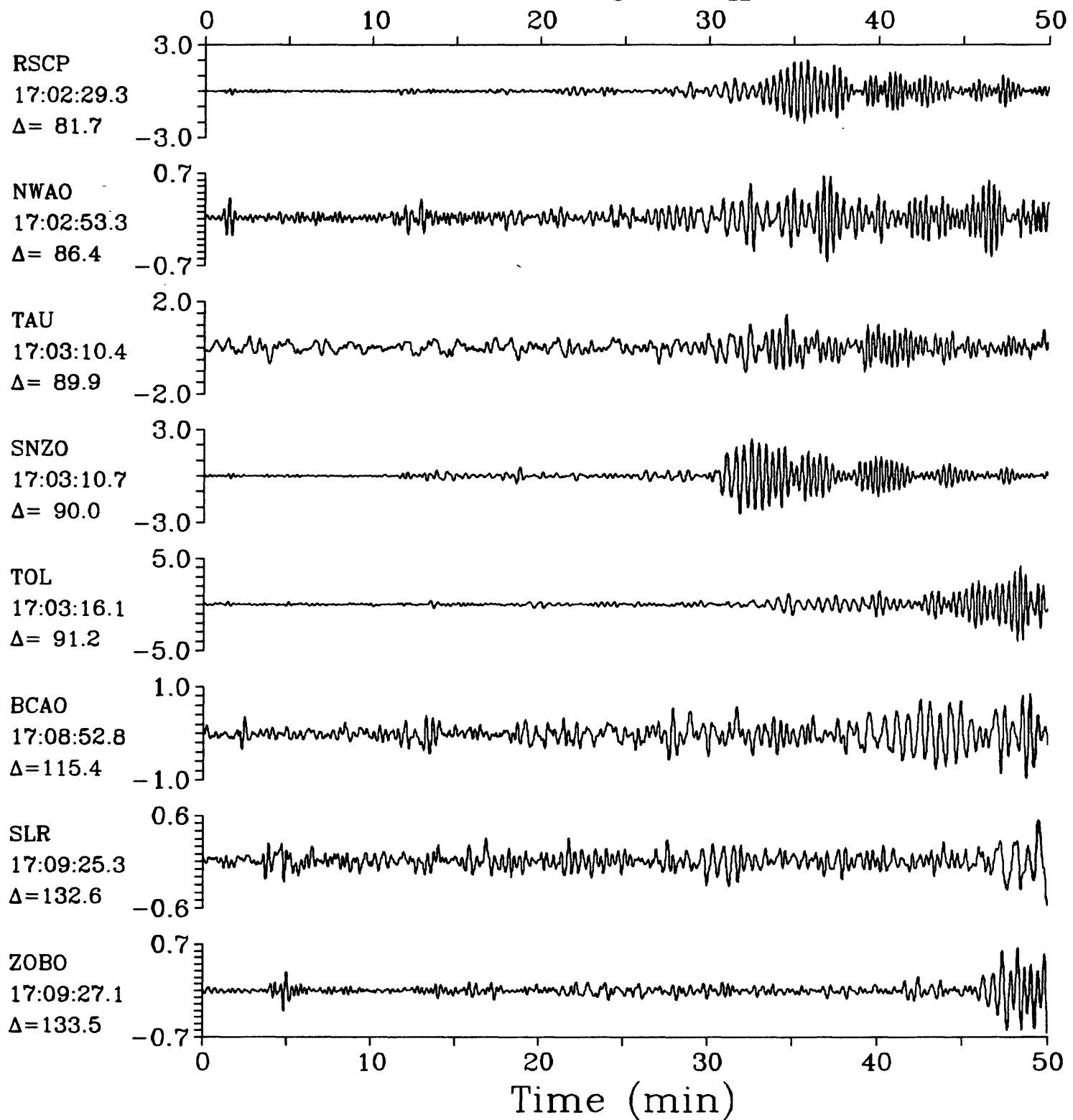
LPZ



LPZ

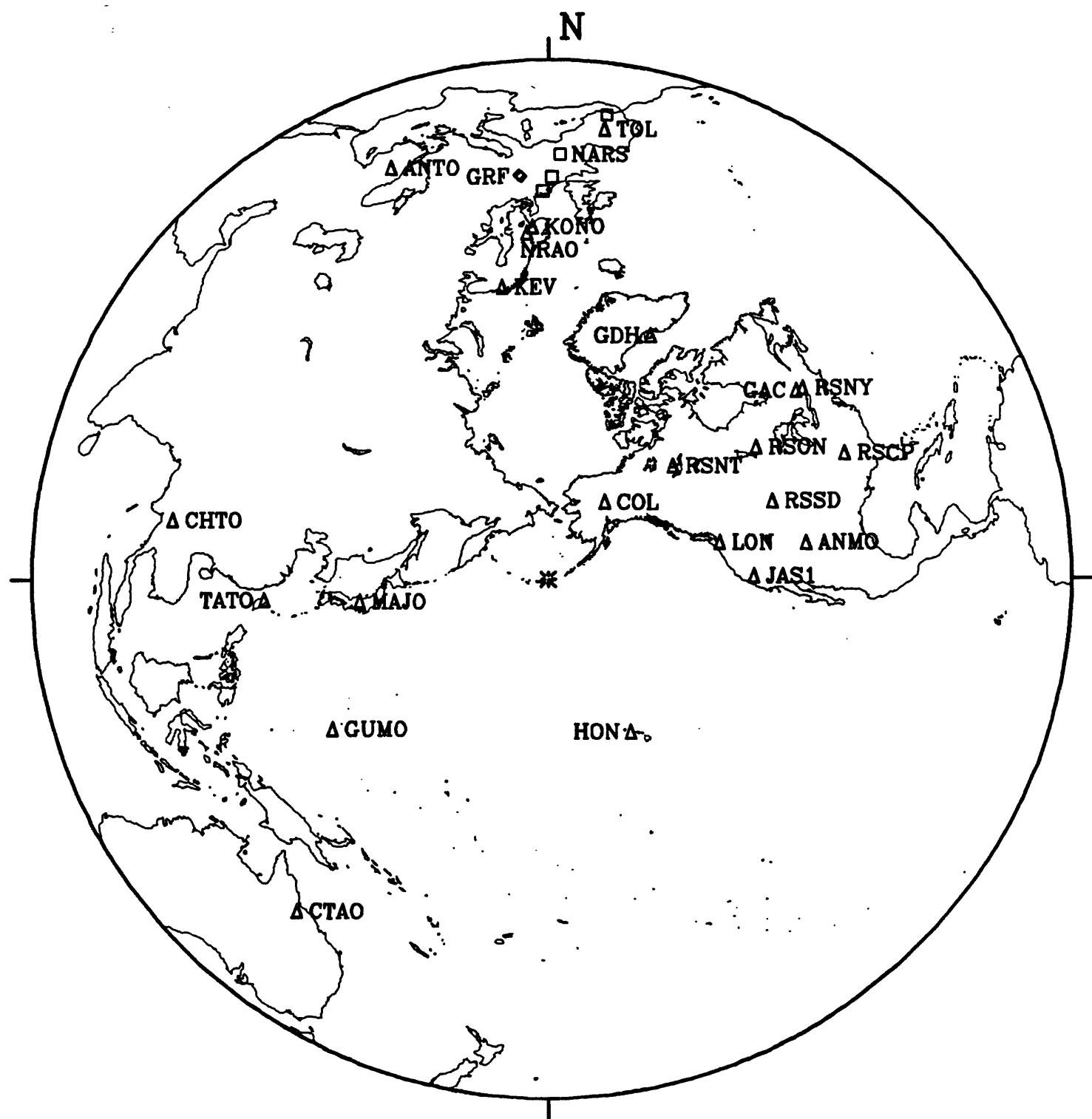
16 May 1986 16:51:13.10
Kuril Islands $h=29.8$ $m_b=5.7$ $M_{SZ}=5.5$

LPZ



17 May 1986 16:20:22.82

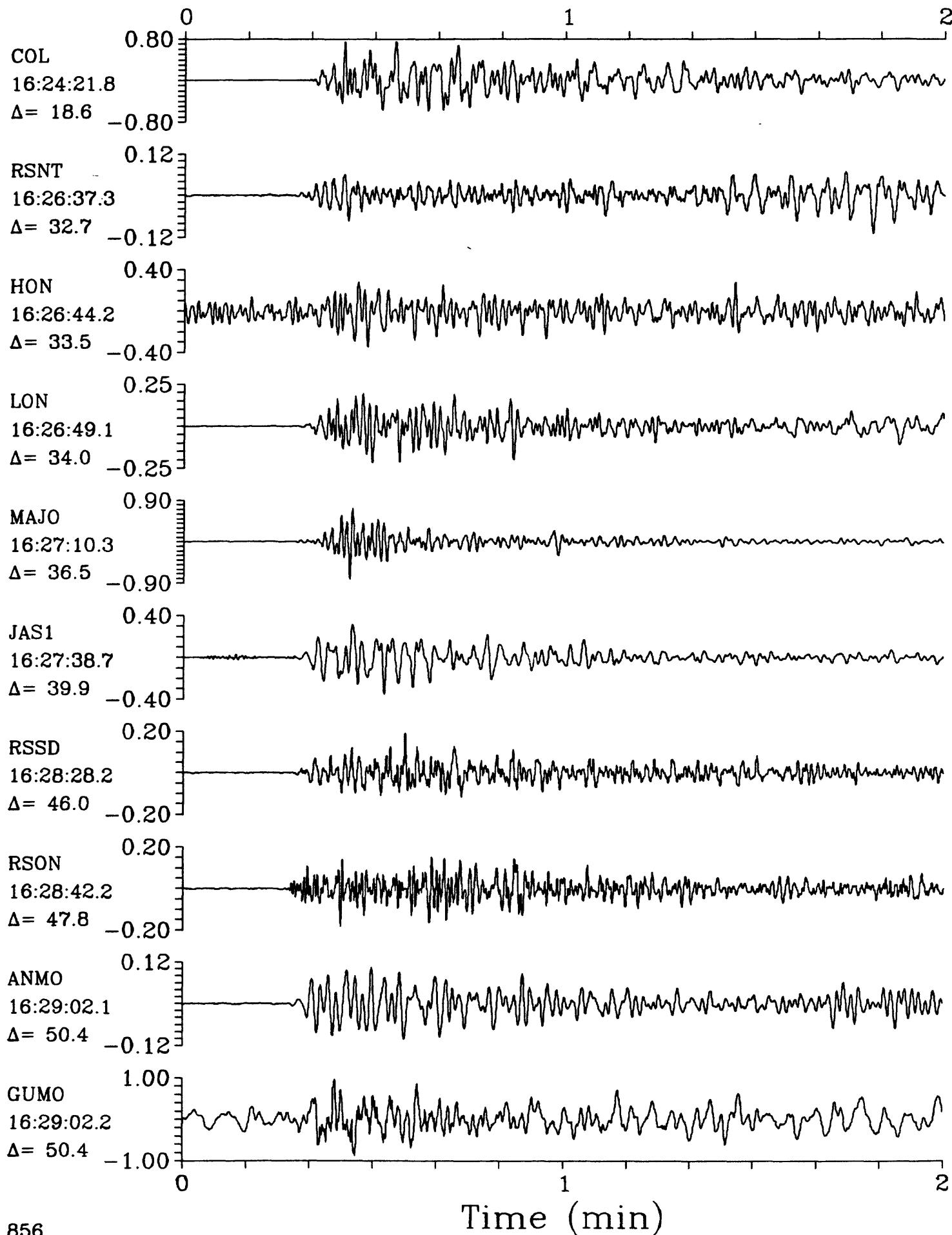
Andreanof Islands, Aleutian Is.



SPZ

17 May 1986 16:20:22.82

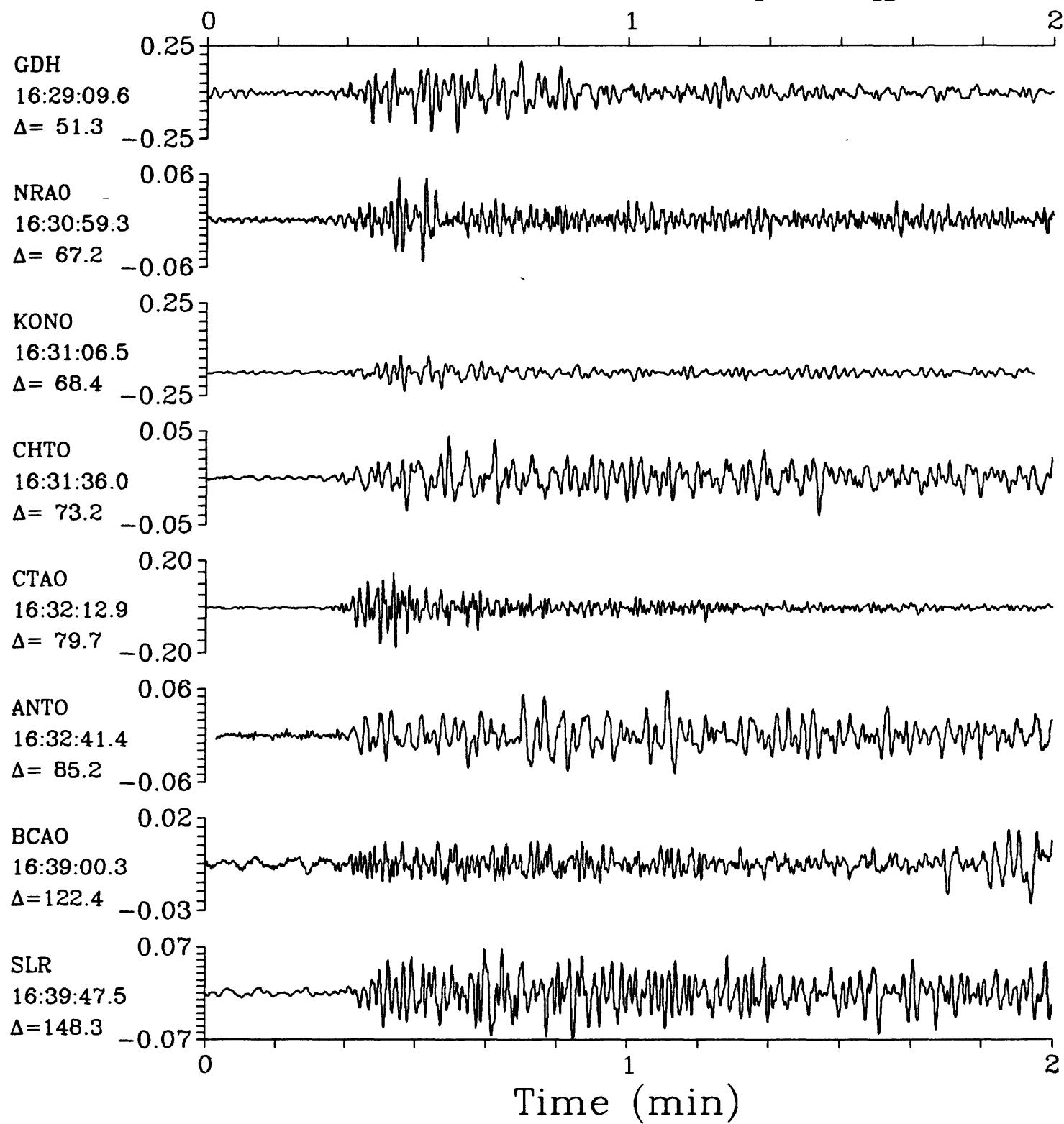
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=6.6$ 

SPZ

17 May 1986 16:20:22.82

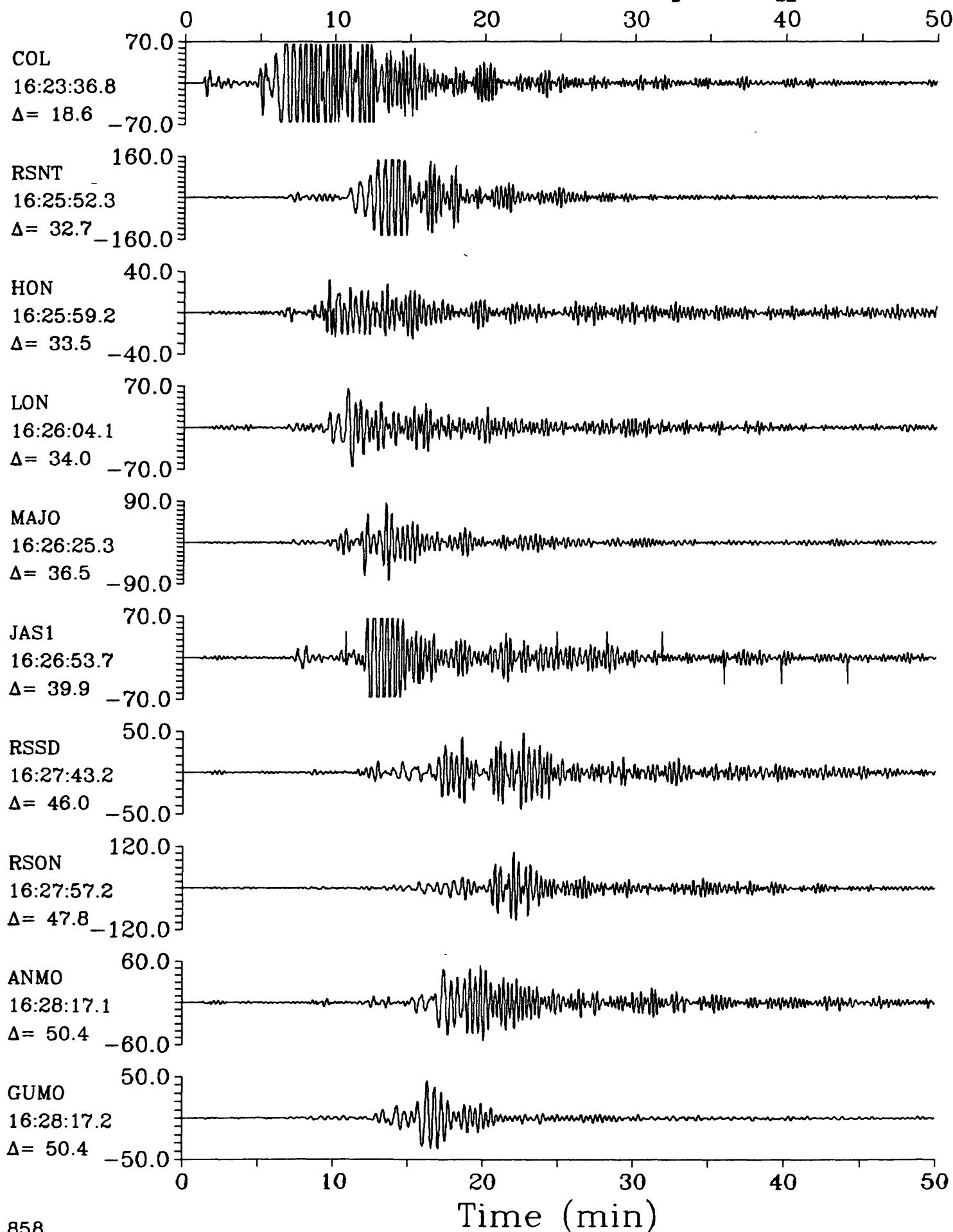
SPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=6.6$ 

LPZ

17 May 1986 16:20:22.82

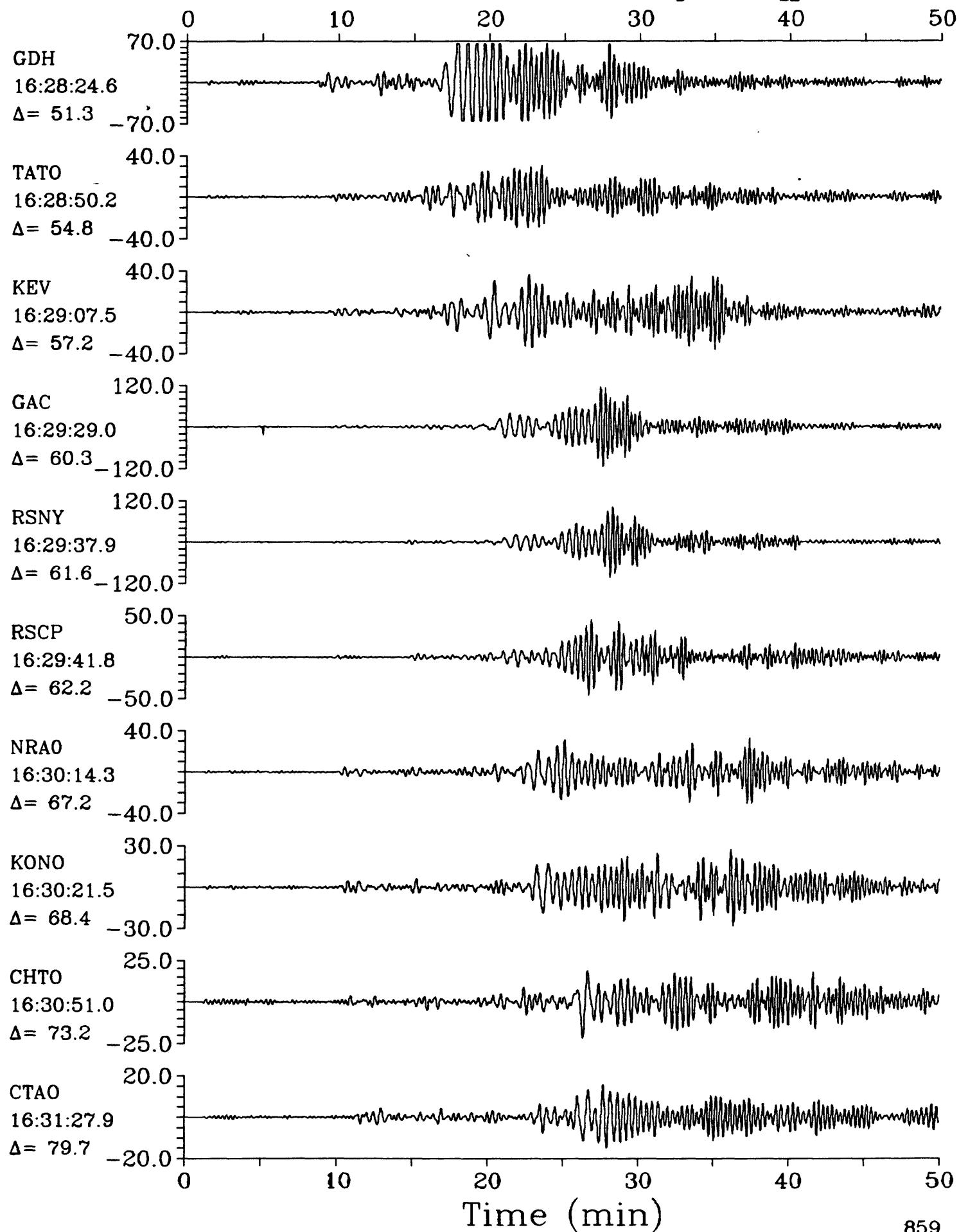
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=6.6$ 

LPZ

17 May 1986 16:20:22.82

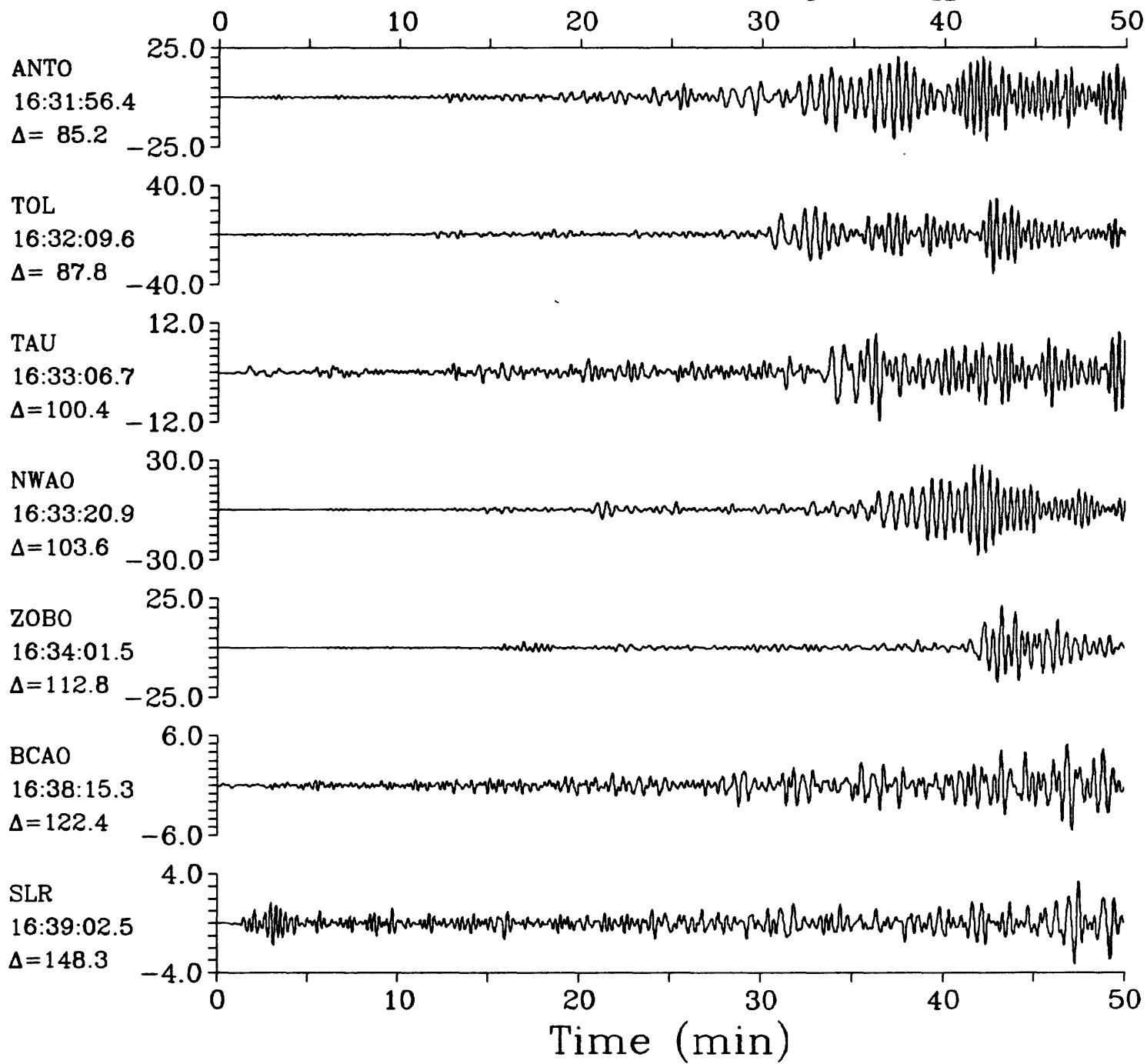
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{SZ}=6.6$ 

LPZ

17 May 1986 16:20:22.82

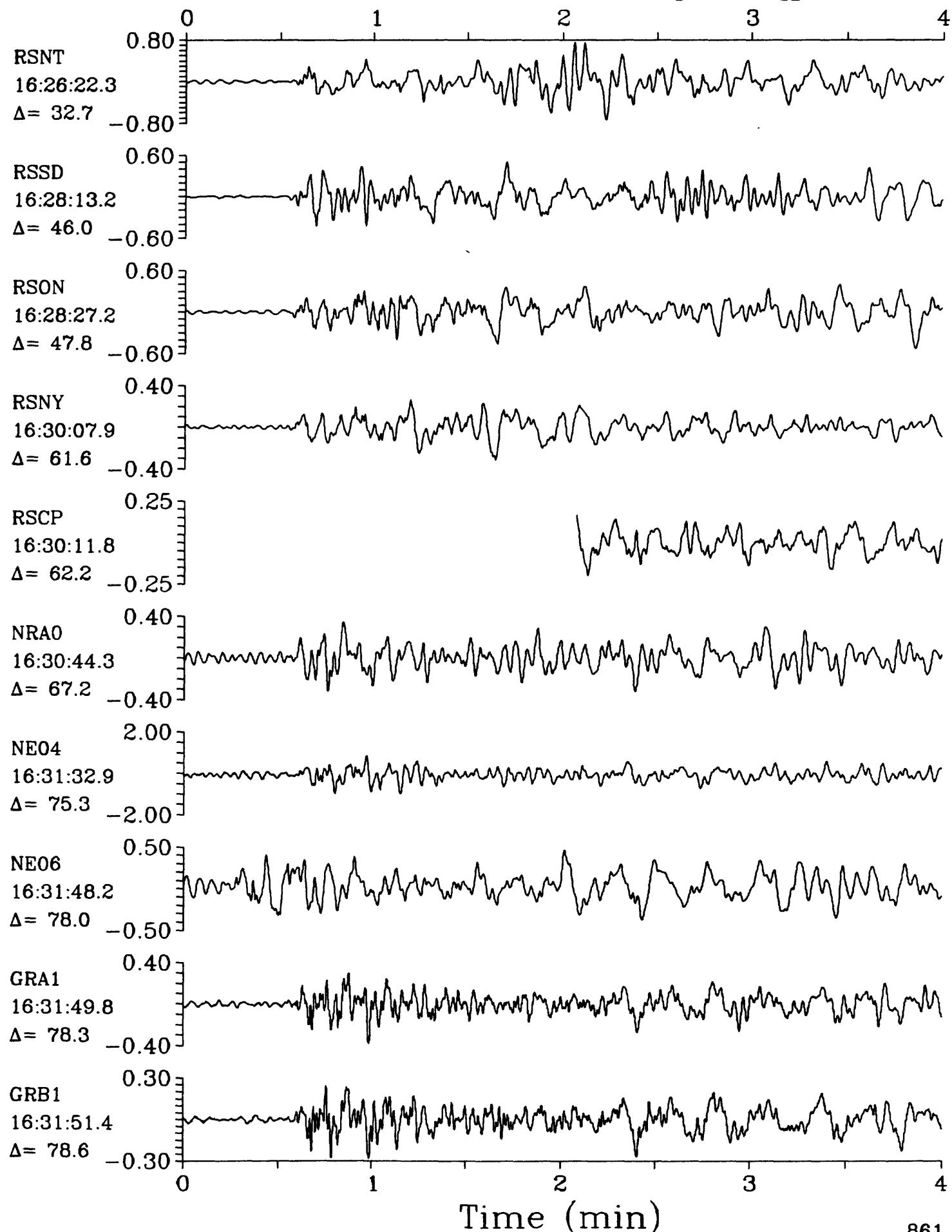
LPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=6.6$ 

IPZ

17 May 1986 16:20:22.82

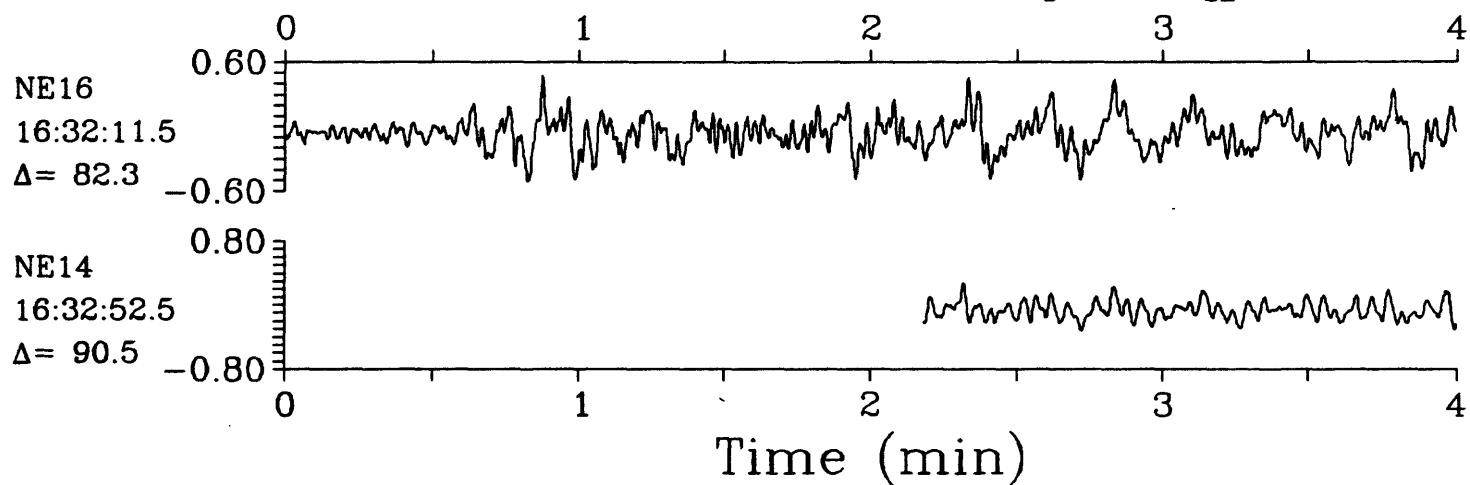
IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=6.6$ 

IPZ

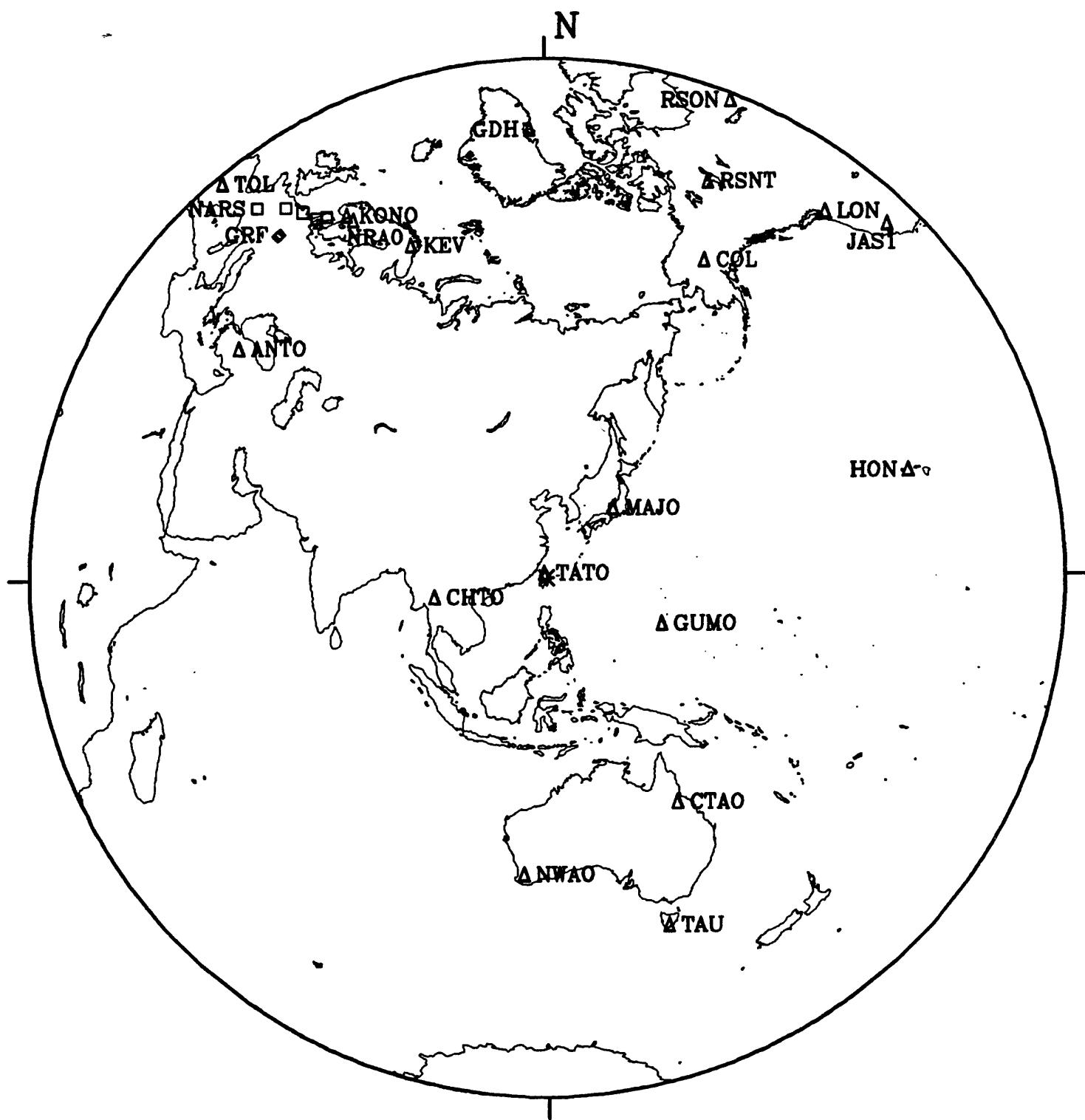
17 May 1986 16:20:22.82

IPZ

Andreanof Islands, Aleutian Is. $h=33.0$ $m_b=5.7$ $M_{sz}=6.6$ 

20 May 1986 05:25:48.67

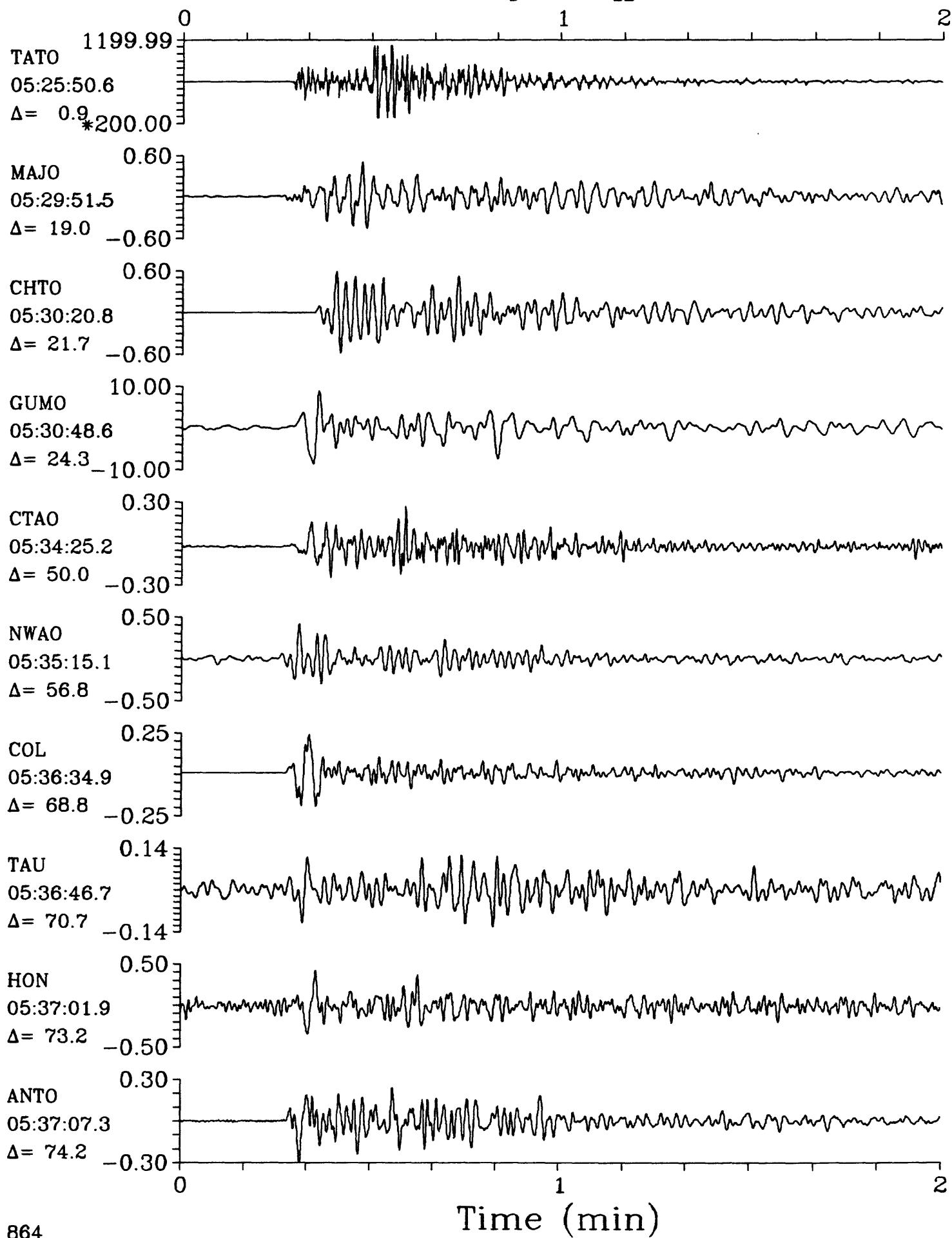
Taiwan



SPZ

20 May 1986 05:25:48.67
Taiwan h=33.0 m_b =6.2 M_{SZ}=6.3

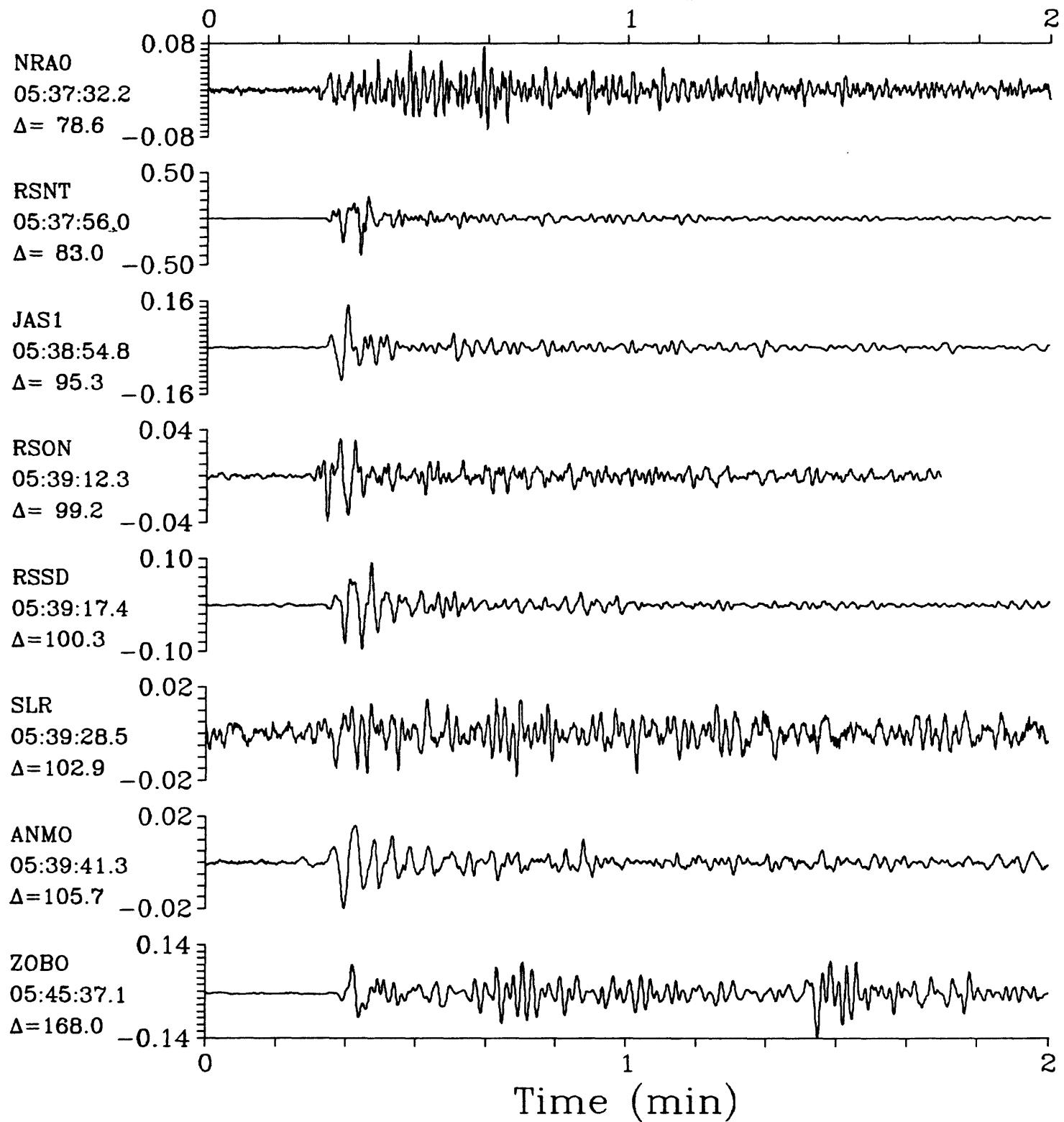
SPZ



SPZ

20 May 1986 05:25:48.67
Taiwan $h=33.0$ $m_b=6.2$ $M_{sz}=6.3$

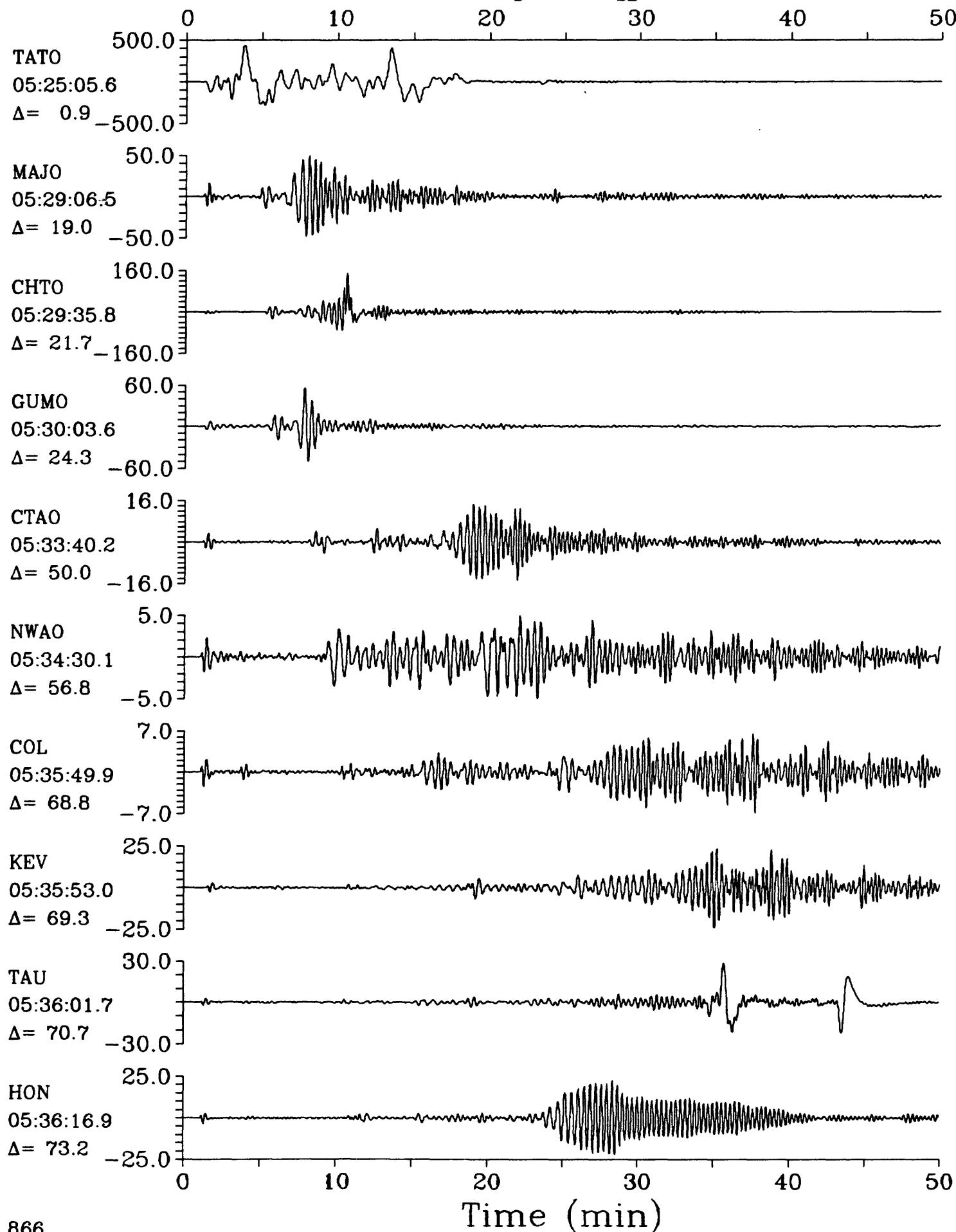
SPZ



LPZ

20 May 1986 05:25:48.67
Taiwan h=33.0 m_b=6.2 M_{SZ}=6.3

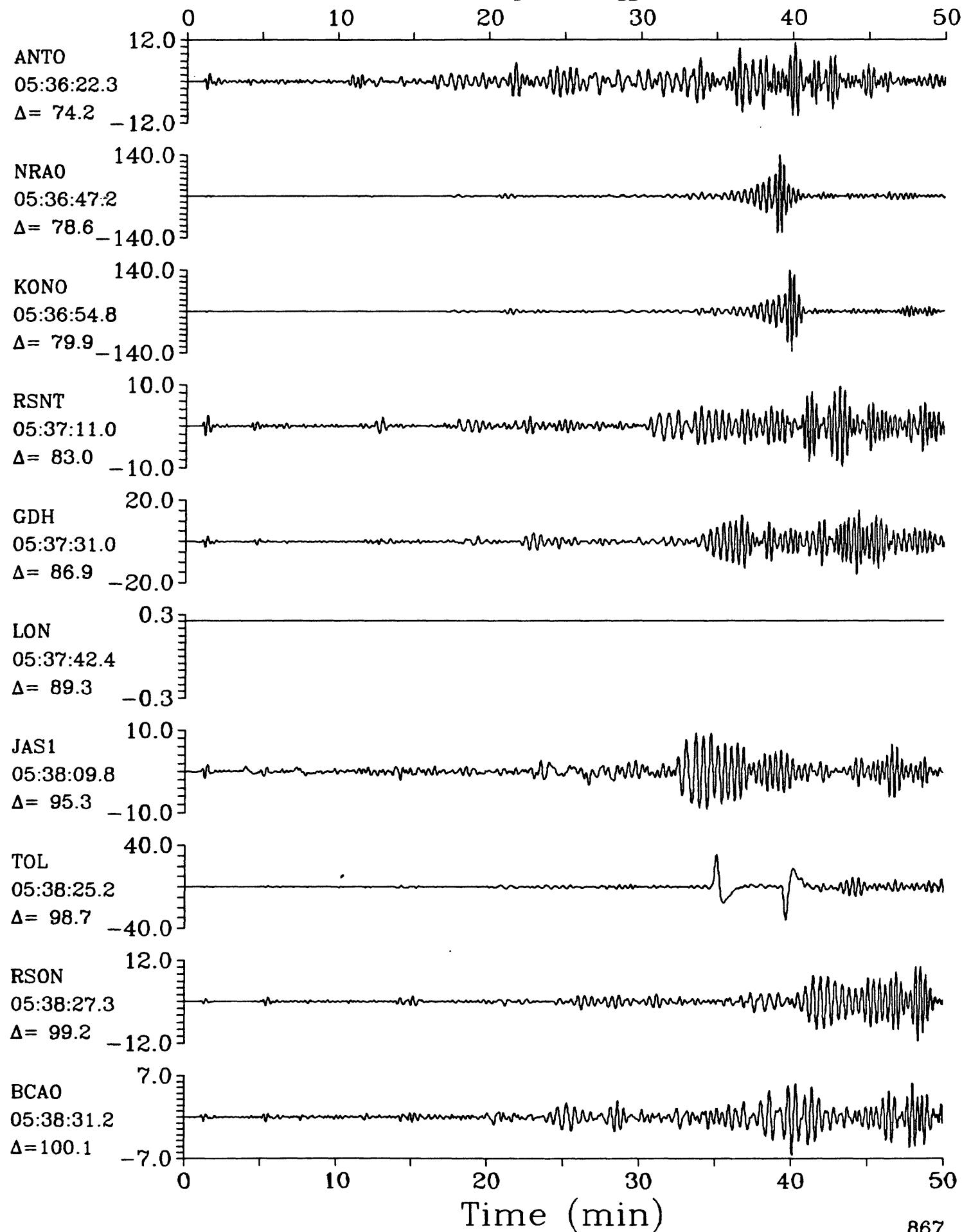
LPZ



LPZ

20 May 1986 05:25:48.67
Taiwan $h=33.0$ $m_b=6.2$ $M_{sz}=6.3$

LPZ

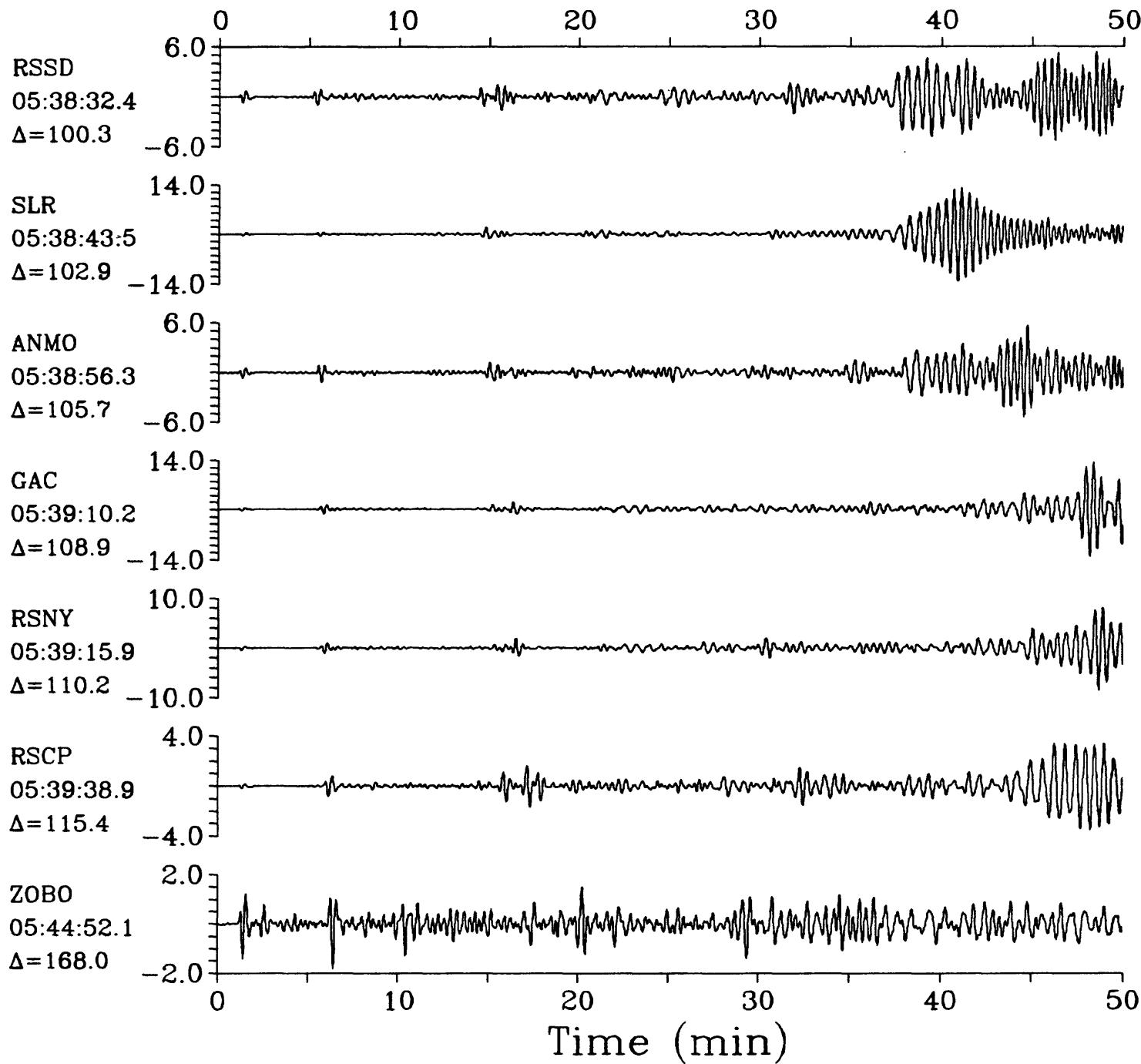


Time (min)

LPZ

20 May 1986 05:25:48.67
Taiwan $h=33.0$ $m_b=6.2$ $M_{sz}=6.3$

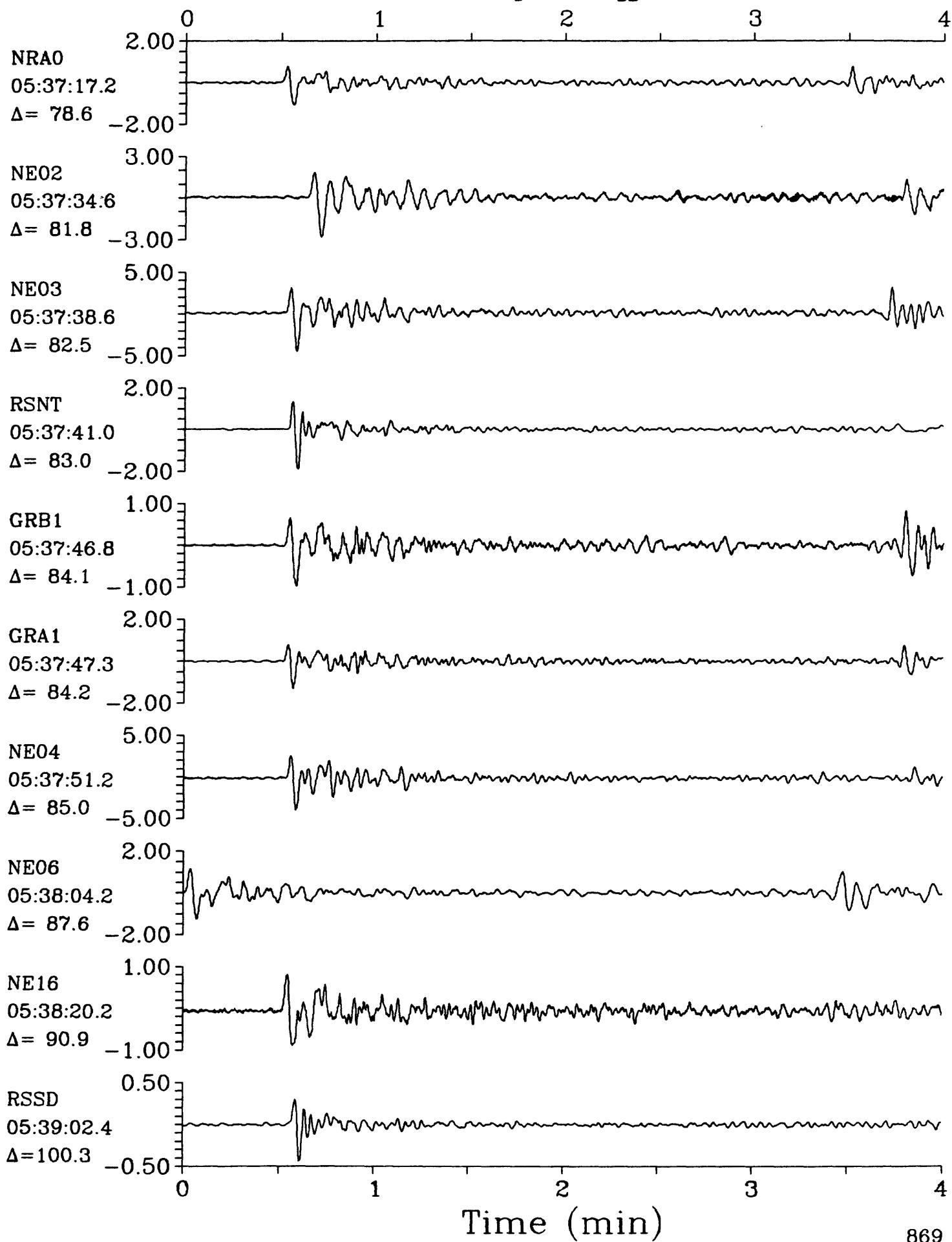
LPZ



IPZ

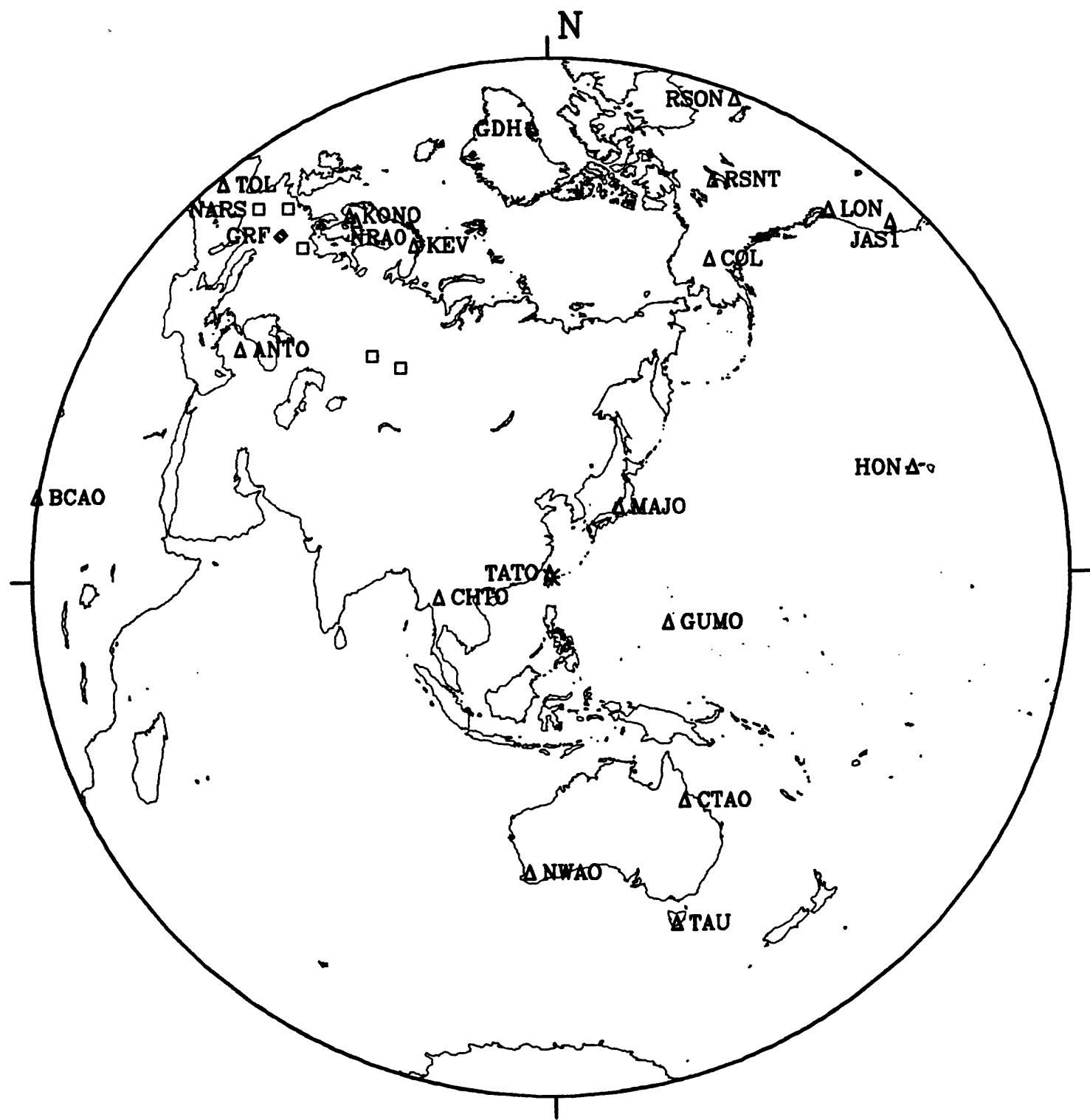
20 May 1986 05:25:48.67
Taiwan $h=33.0$ $m_b=6.2$ $M_{sz}=6.3$

IPZ



20 May 1986 05:37:30.71

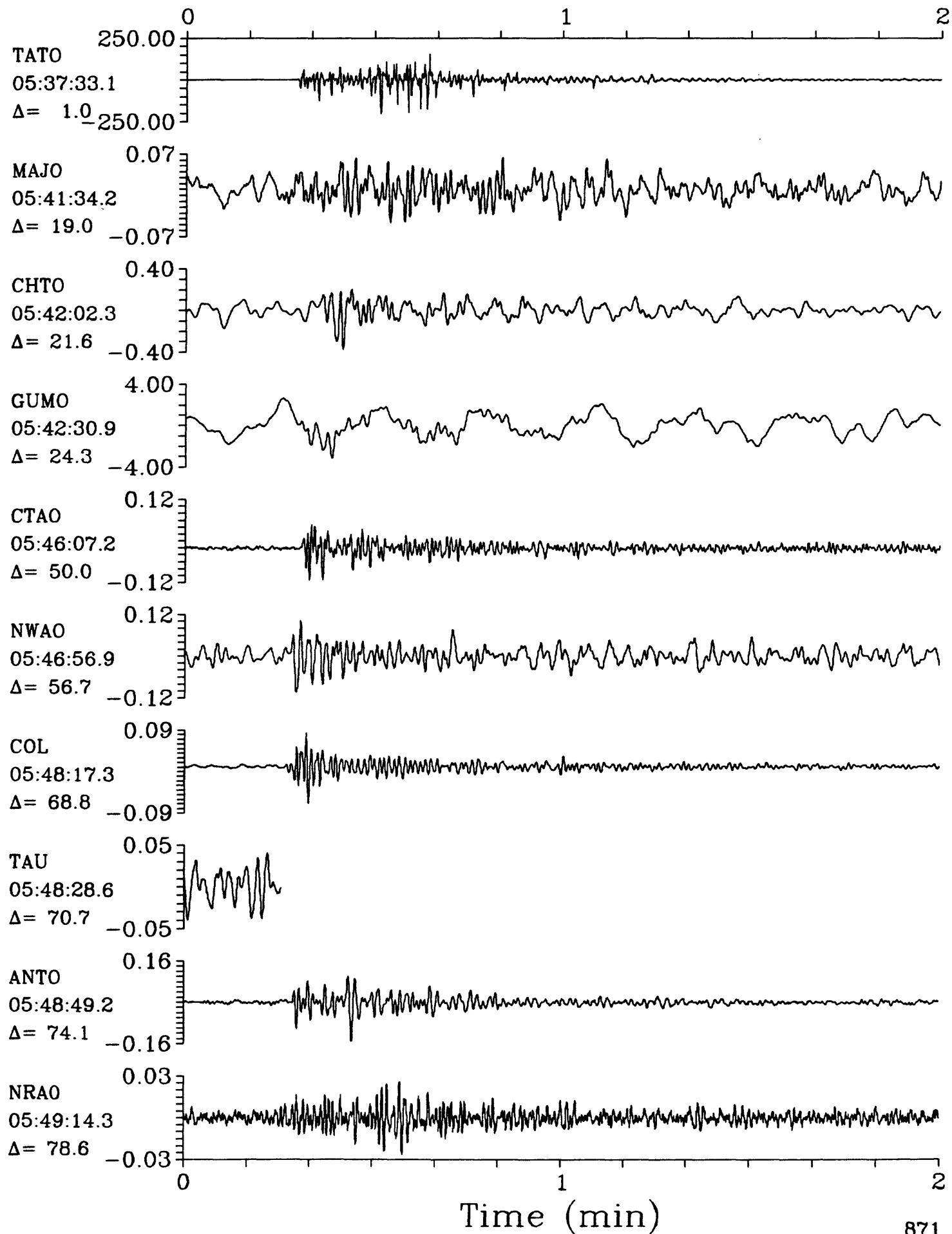
Taiwan



SPZ

20 May 1986 05:37:30.71
Taiwan $h=33.0$ $m_b=5.5$

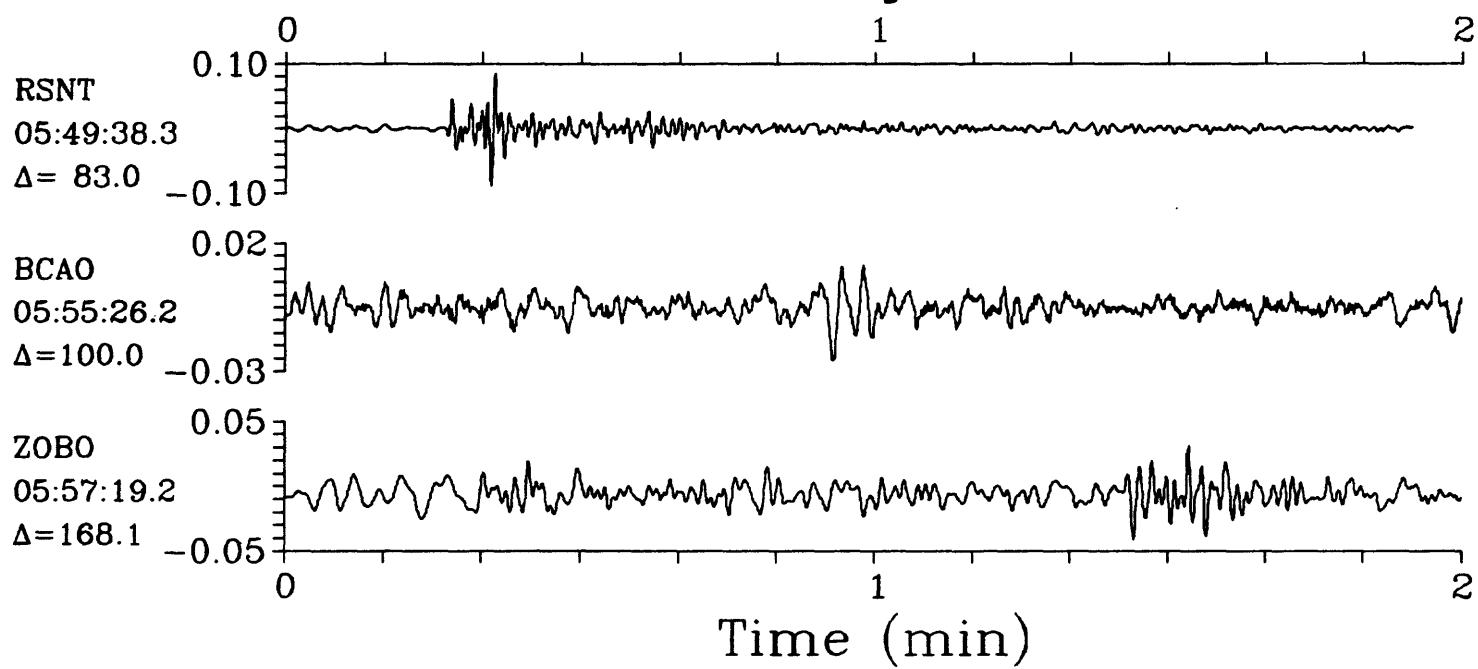
SPZ



SPZ

20 May 1986 05:37:30.71
Taiwan h=33.0 m_b=5.5

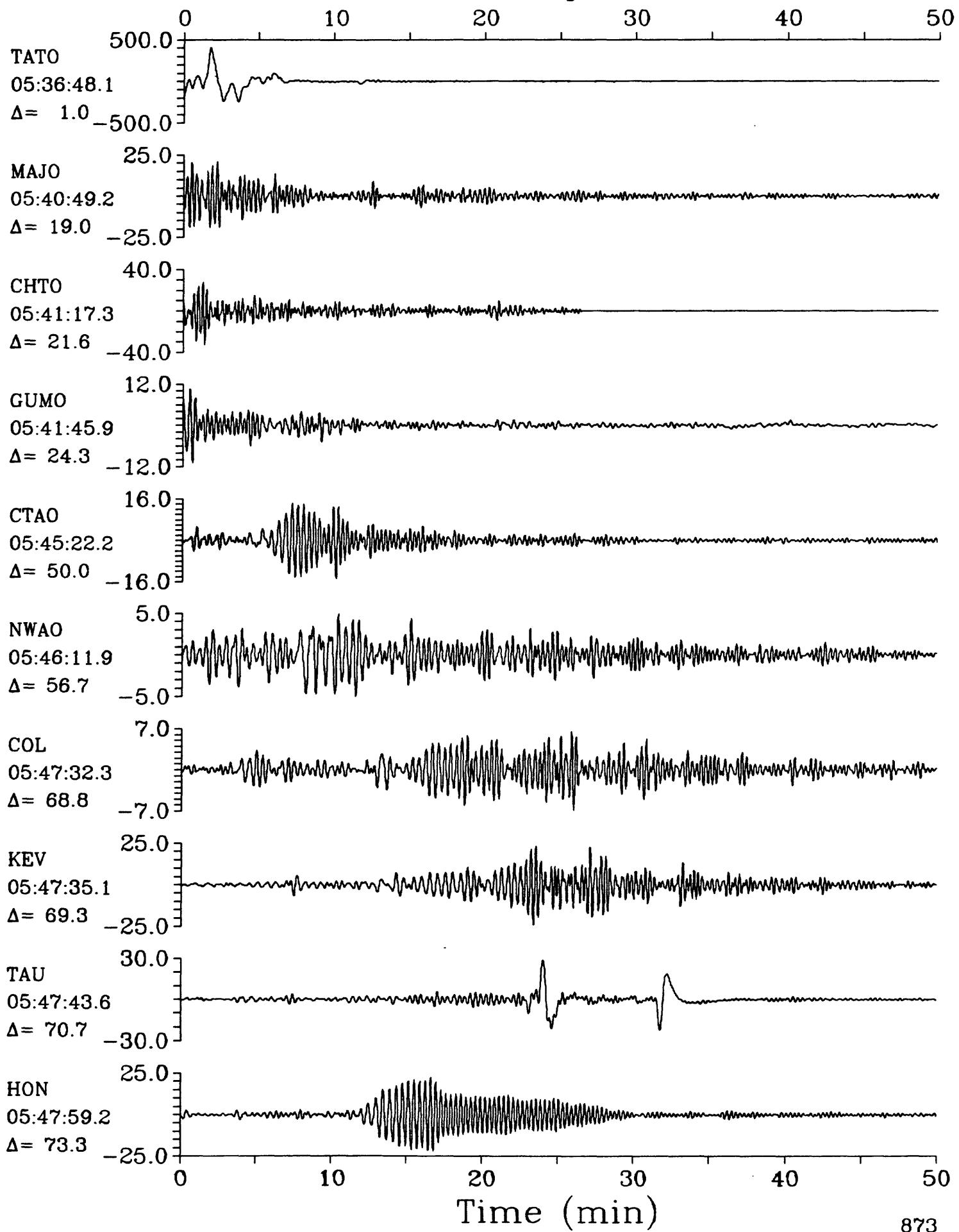
SPZ



LPZ

20 May 1986 05:37:30.71
Taiwan h=33.0 m_b=5.5

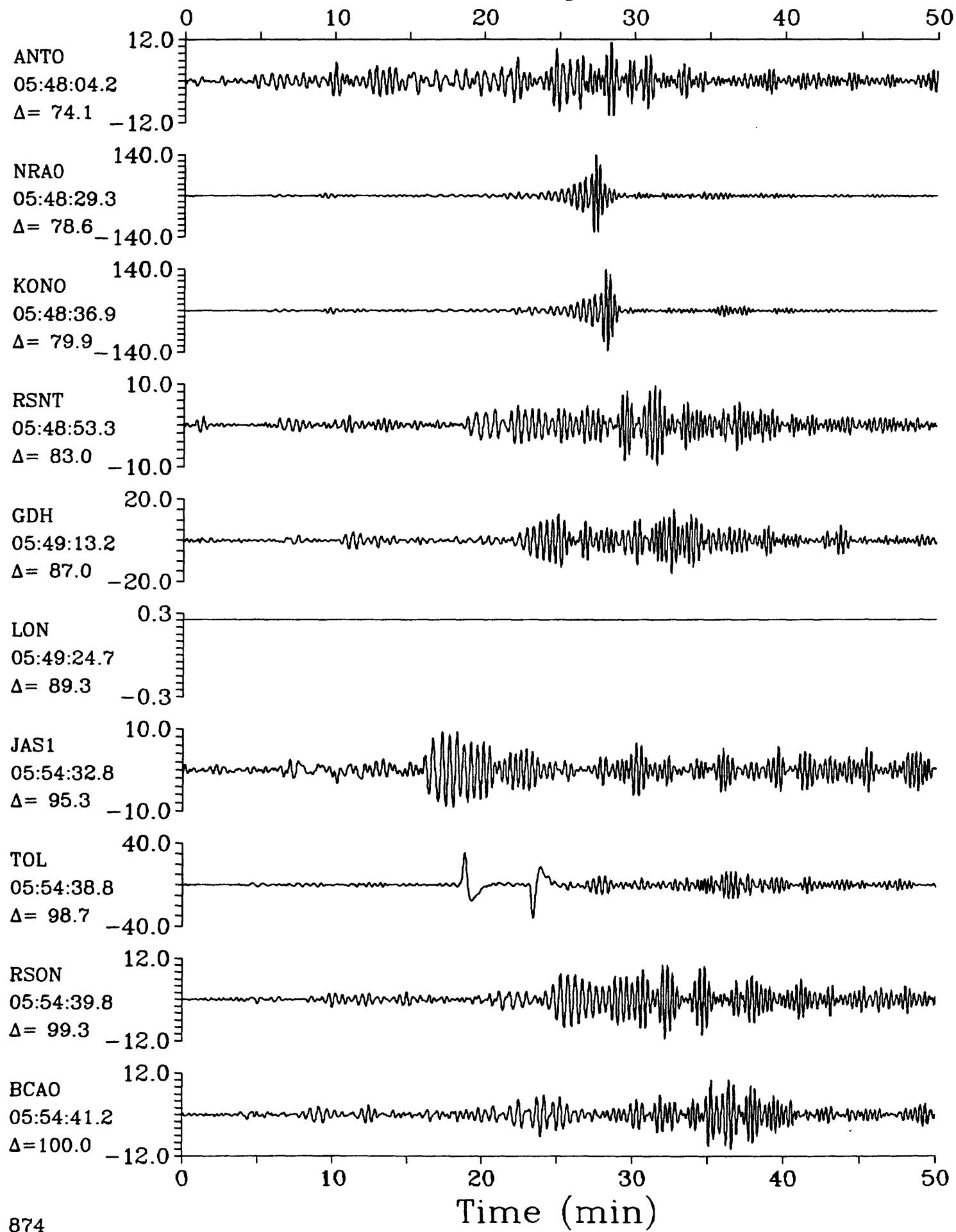
LPZ



LPZ

20 May 1986 05:37:30.71
Taiwan h=33.0 m_b=5.5

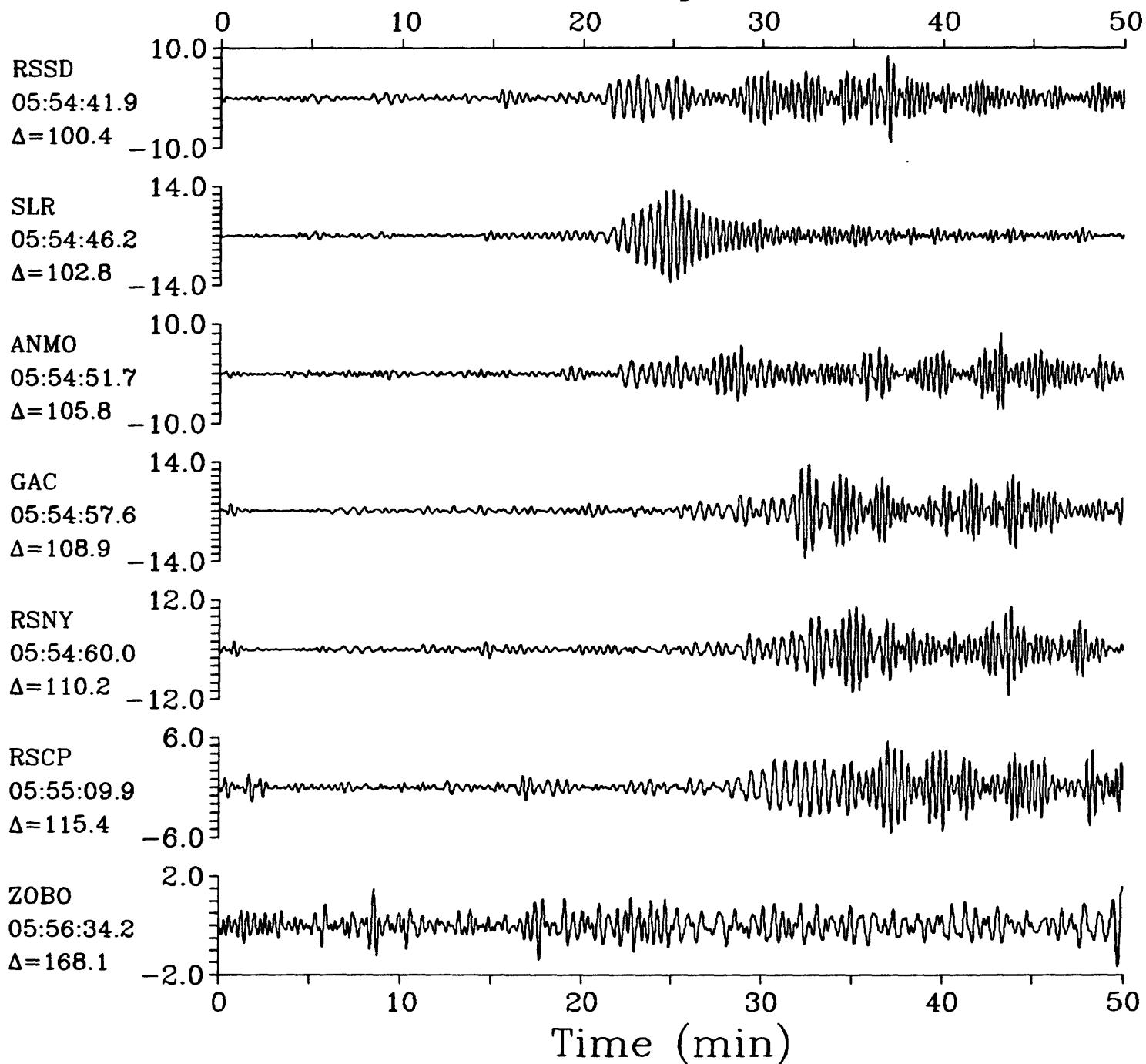
LPZ



LPZ

20 May 1986 05:37:30.71
Taiwan $h=33.0$ $m_b=5.5$

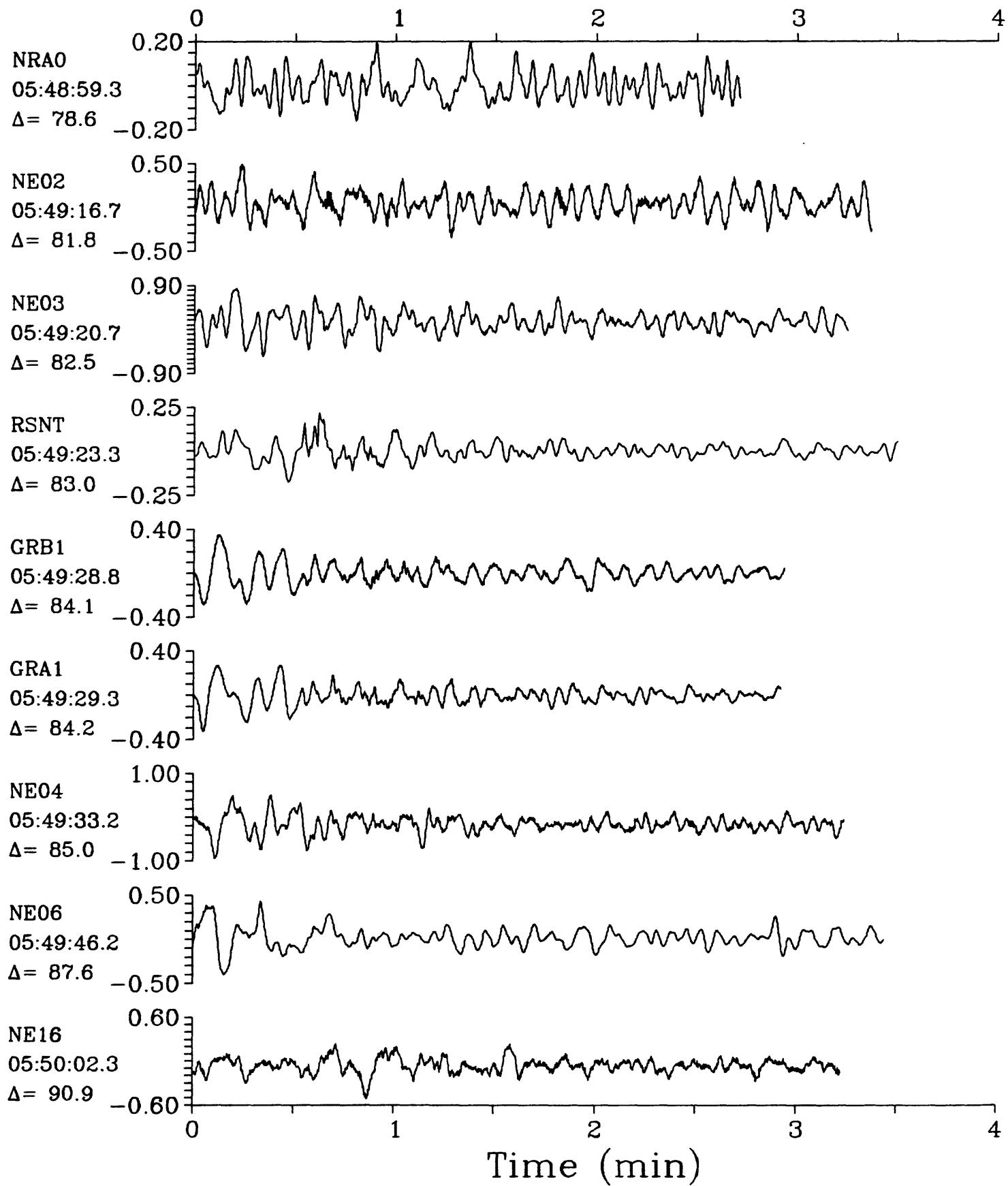
LPZ



IPZ

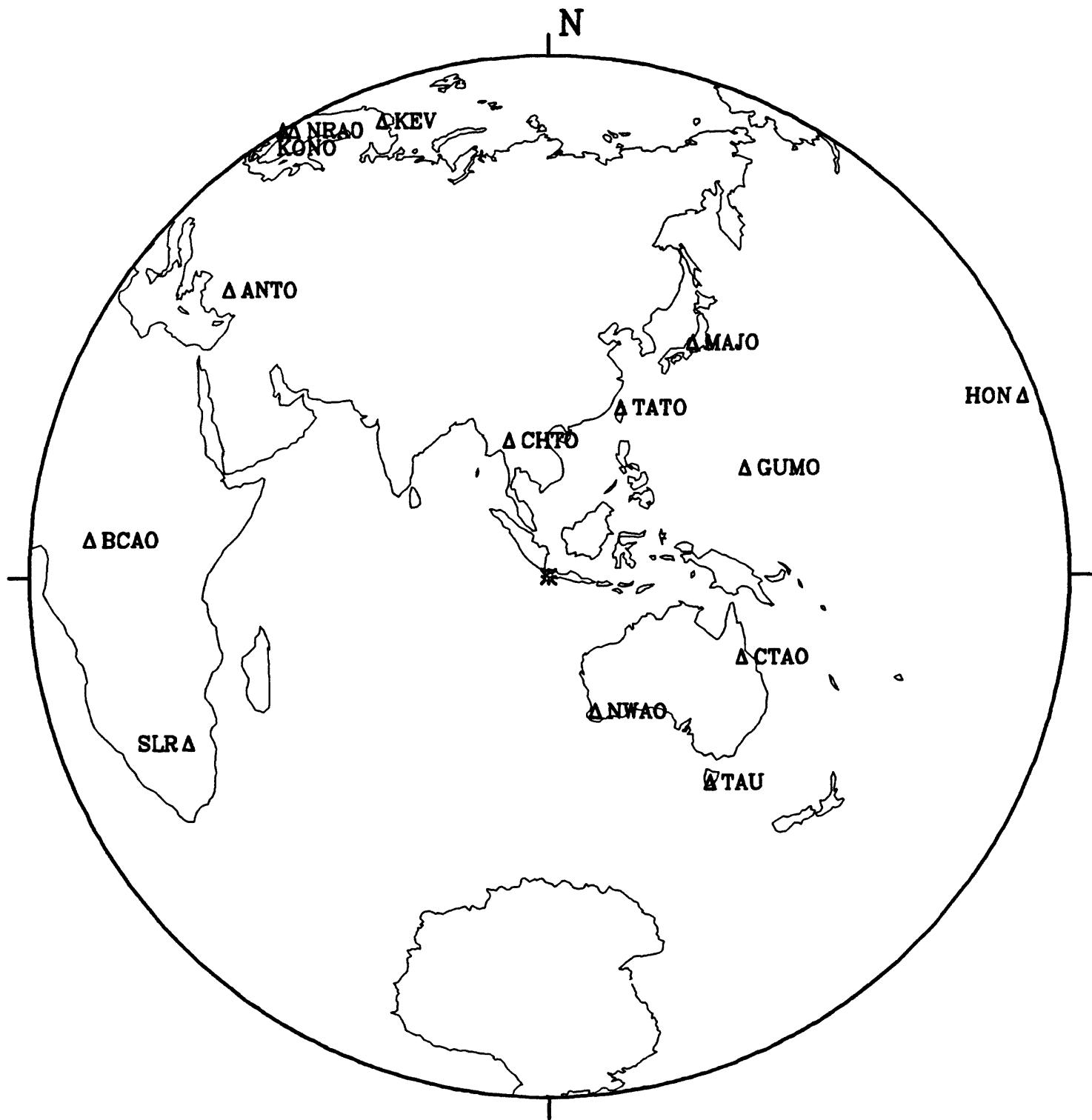
20 May 1986 05:37:30.71
Taiwan $h=33.0$ $m_b=5.5$

IPZ



20 May 1986 21:57:05.00

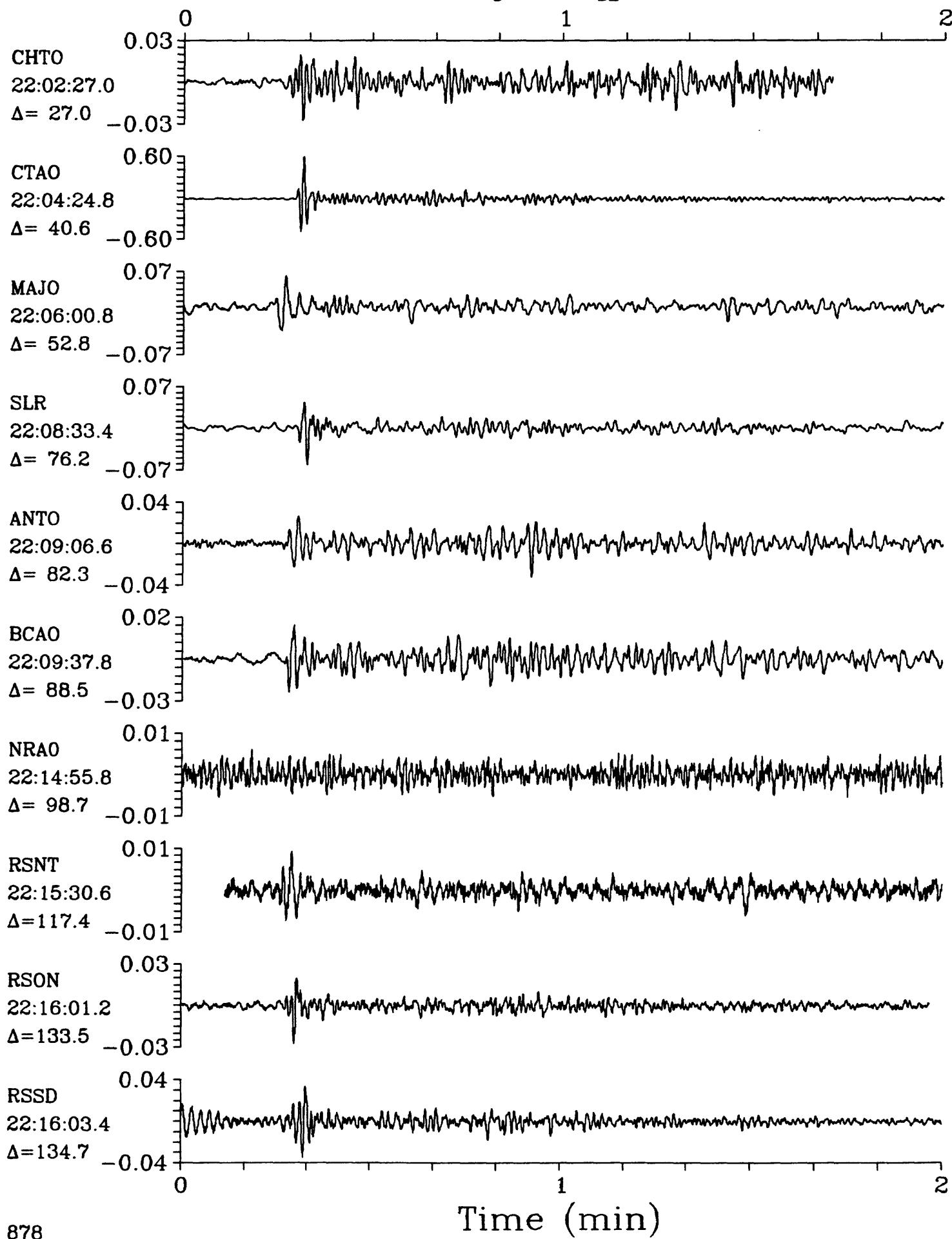
Java



SPZ

20 May 1986 21:57:05.00
Java h=51.3 m_b=5.5 M_{SZ}=4.4

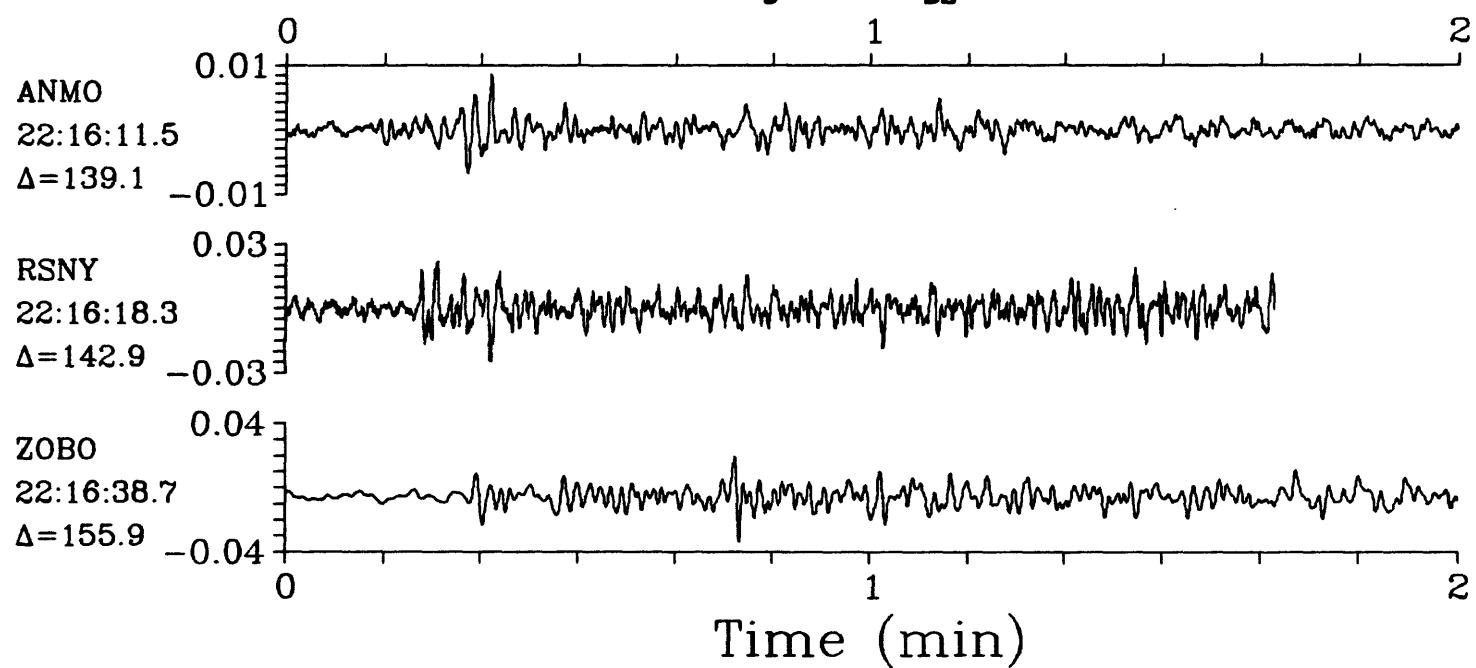
SPZ



SPZ

20 May 1986 21:57:05.00
Java h=51.3 m_b=5.5 M_{SZ}=4.4

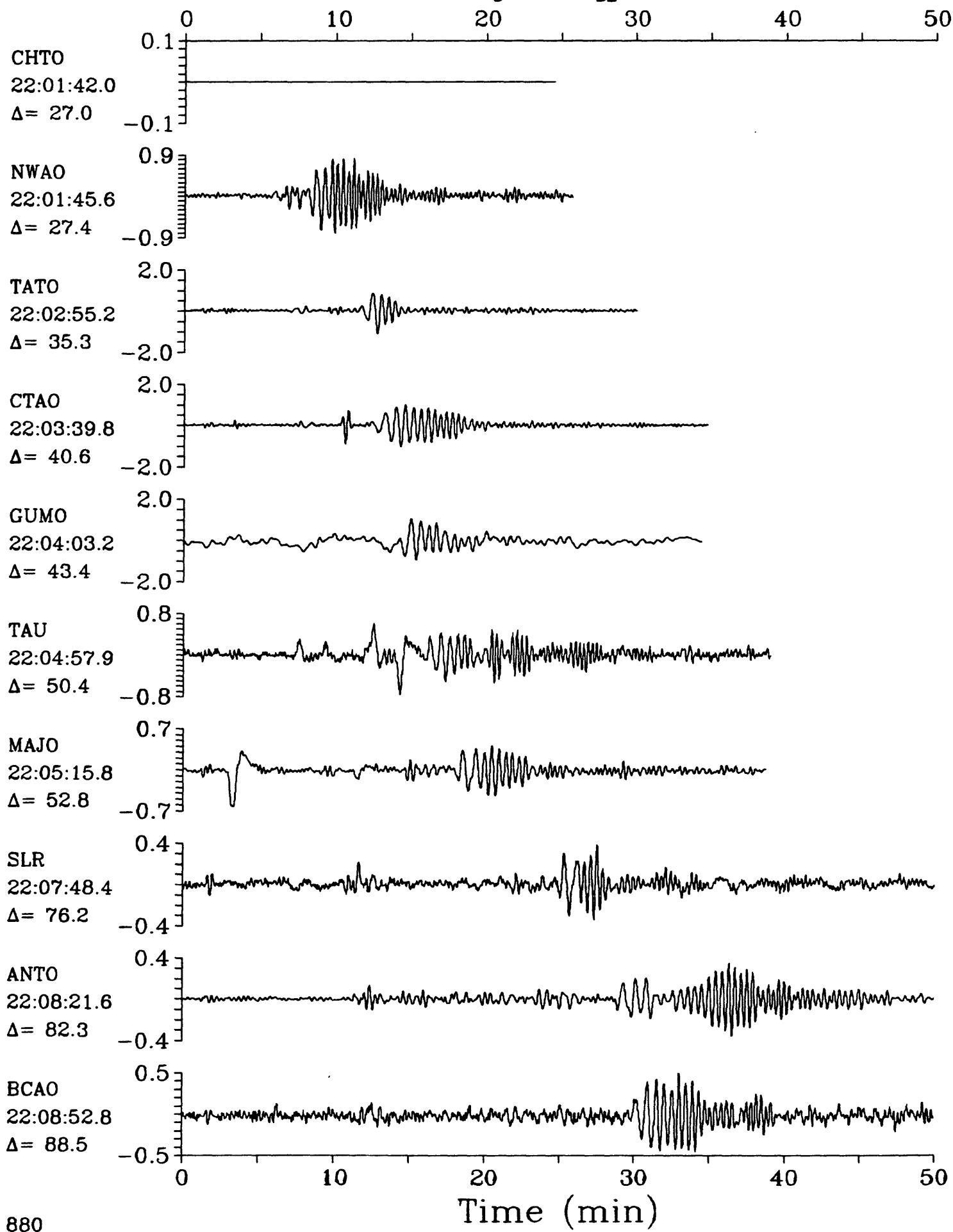
SPZ



LPZ

20 May 1986 21:57:05.00
Java $h=51.3$ $m_b=5.5$ $M_{SZ}=4.4$

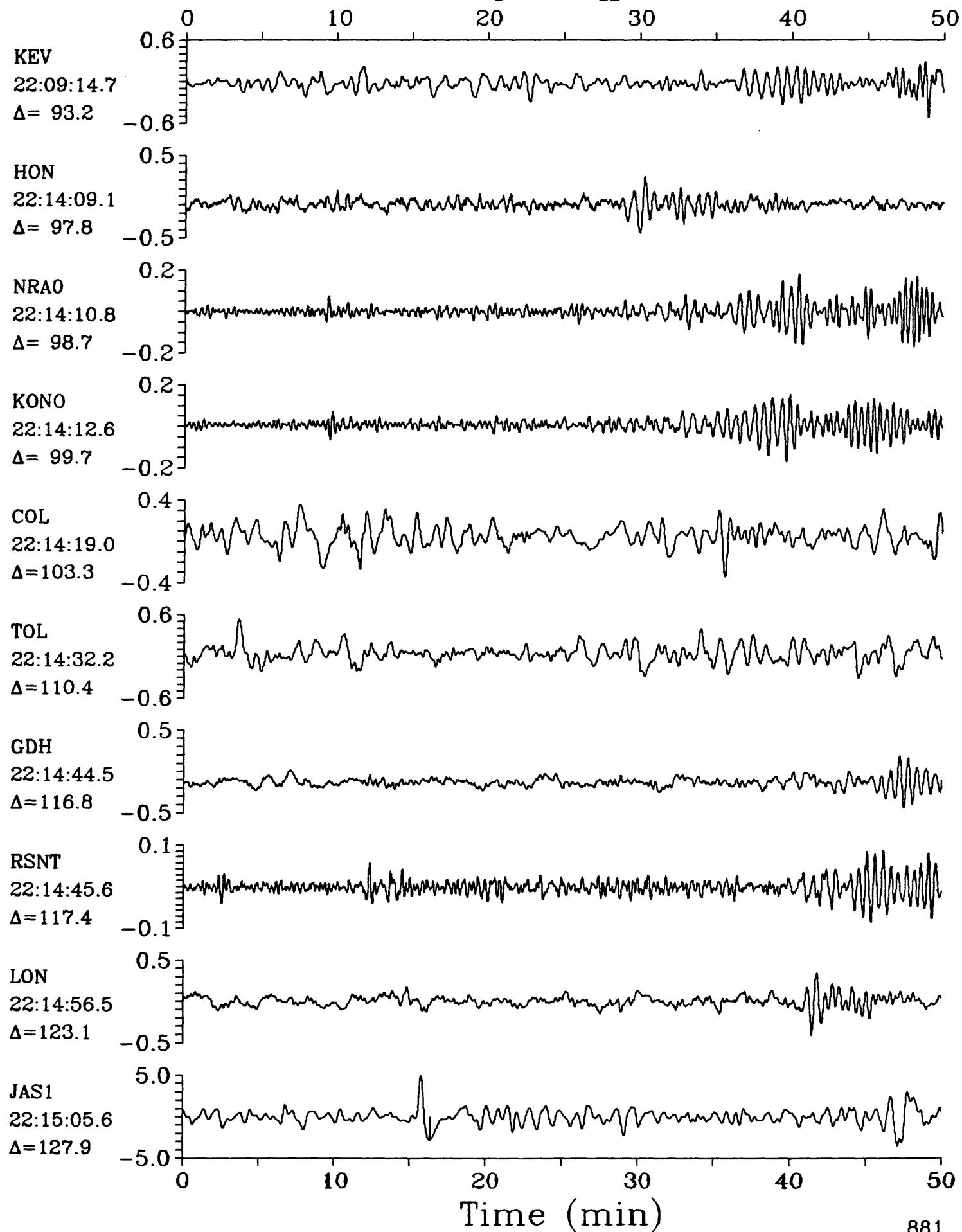
LPZ



LPZ

20 May 1986 21:57:05.00
Java h=51.3 m_b=5.5 M_{sz}=4.4

LPZ

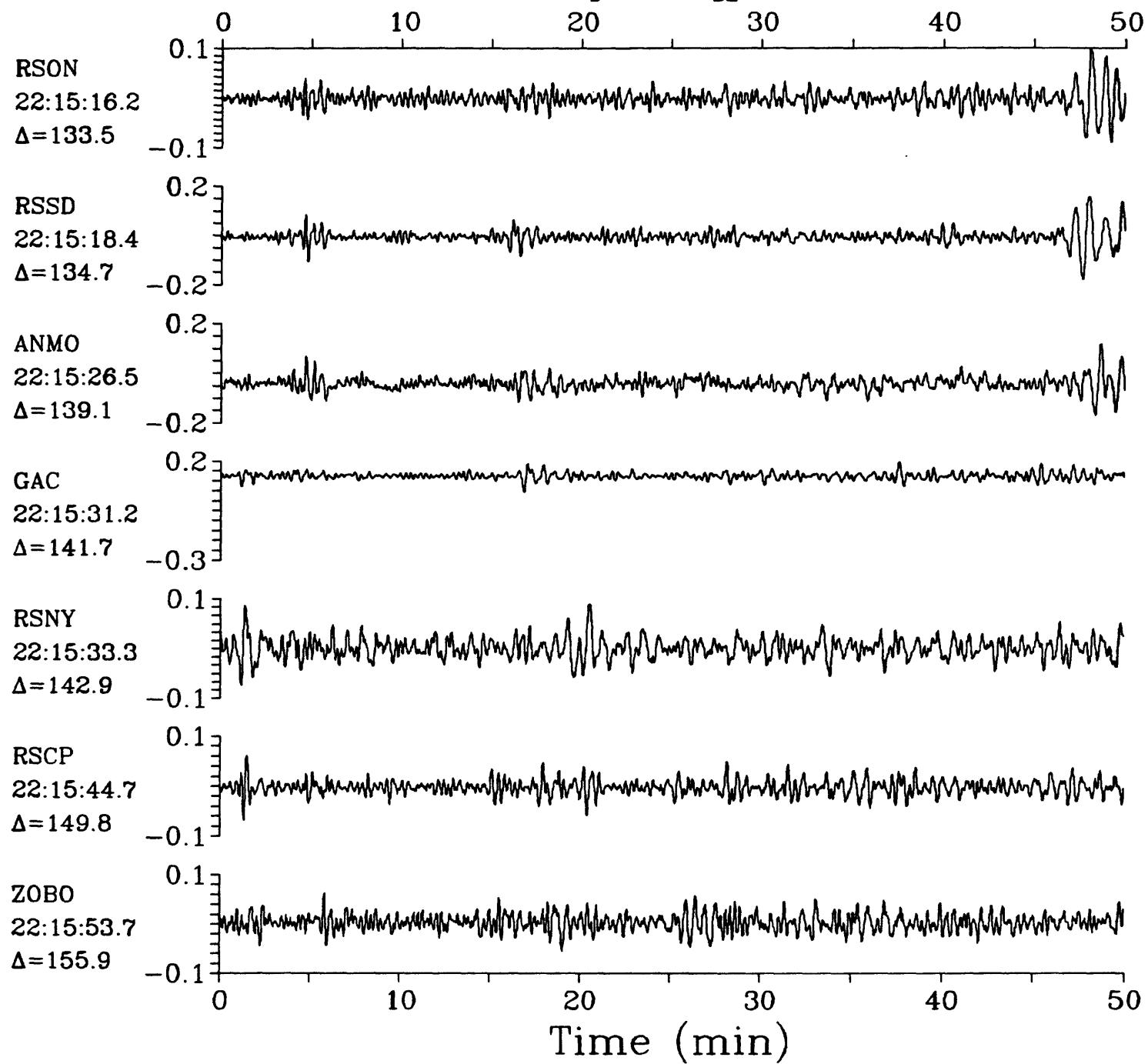


Time (min)

LPZ

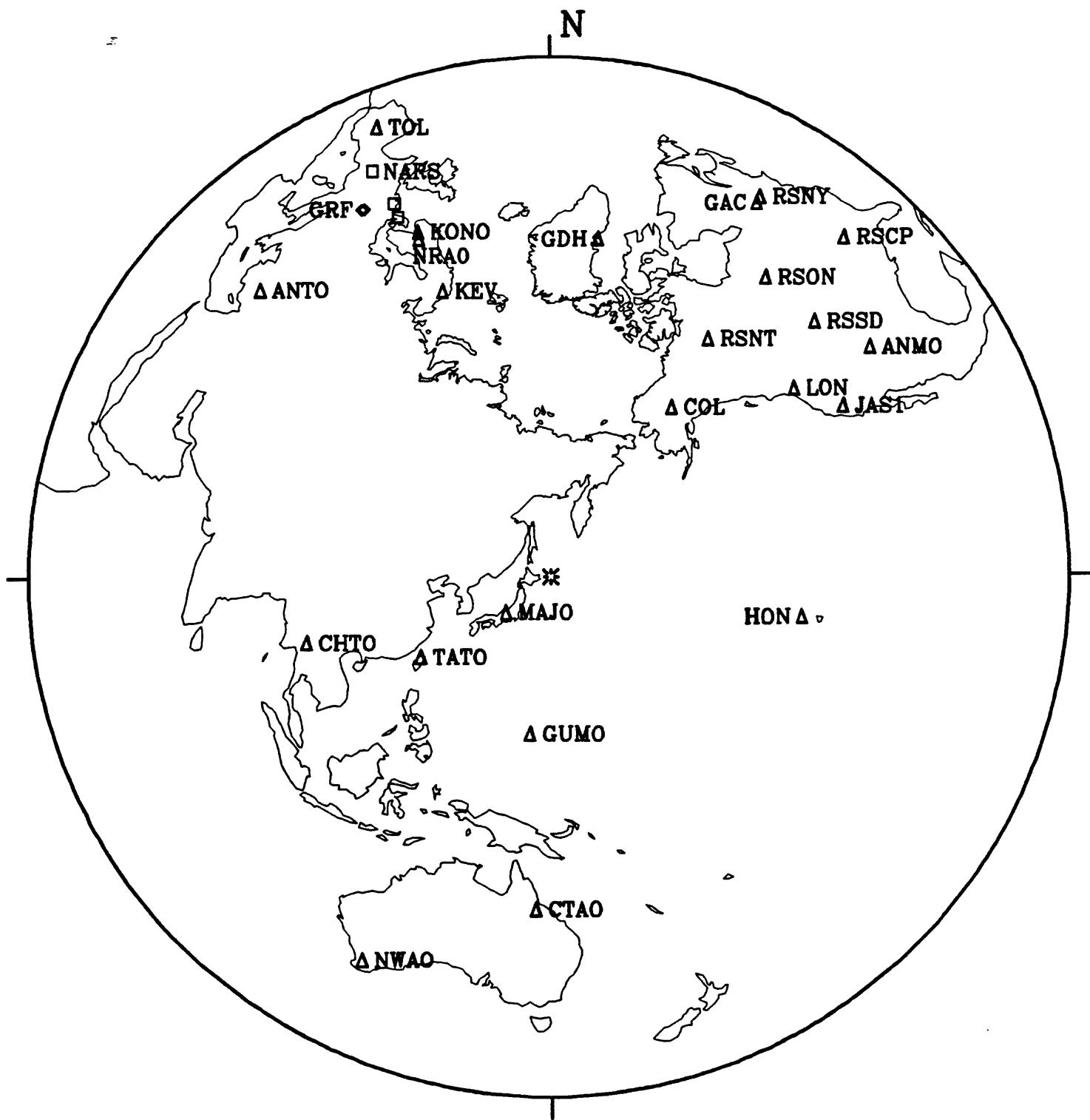
20 May 1986 21:57:05.00
Java h=51.3 m_b=5.5 M_{SZ}=4.4

LPZ



21 May 1986 05:47:11.28

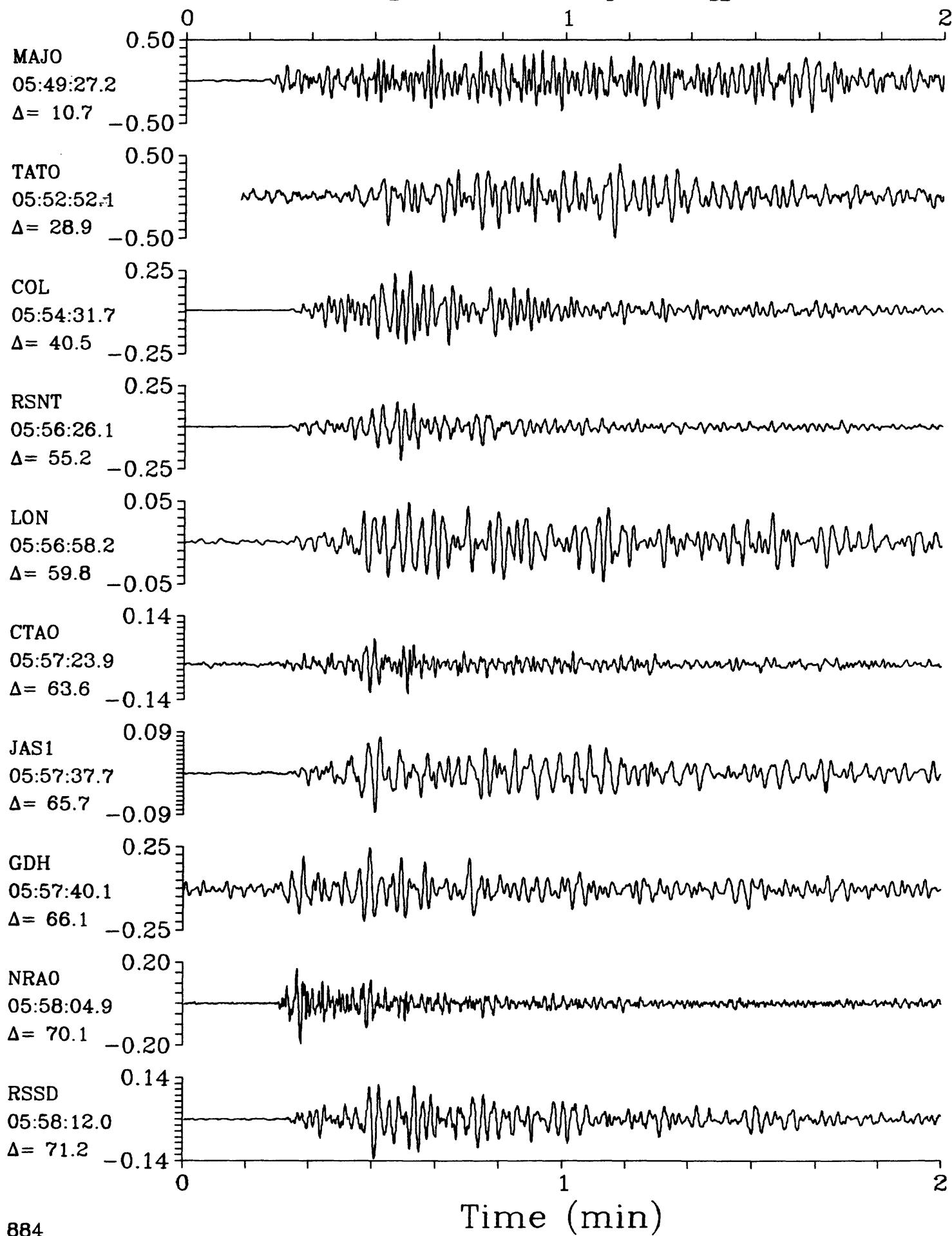
Kuril Islands Region



SPZ

21 May 1986 05:47:11.28

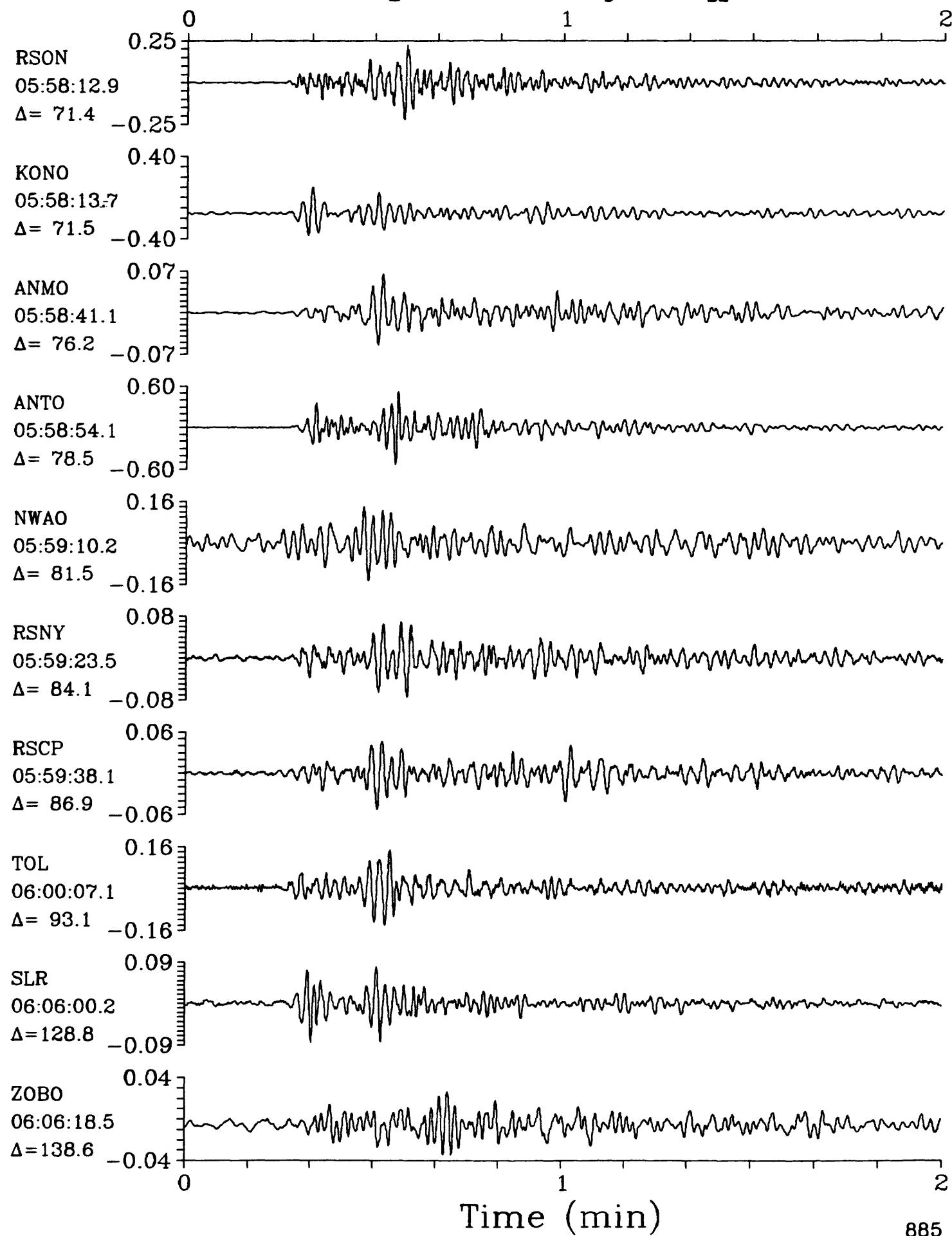
SPZ

Kuril Islands Region $h=37.9$ $m_b=6.1$ $M_{sz}=6.2$ 

SPZ

21 May 1986 05:47:11.28

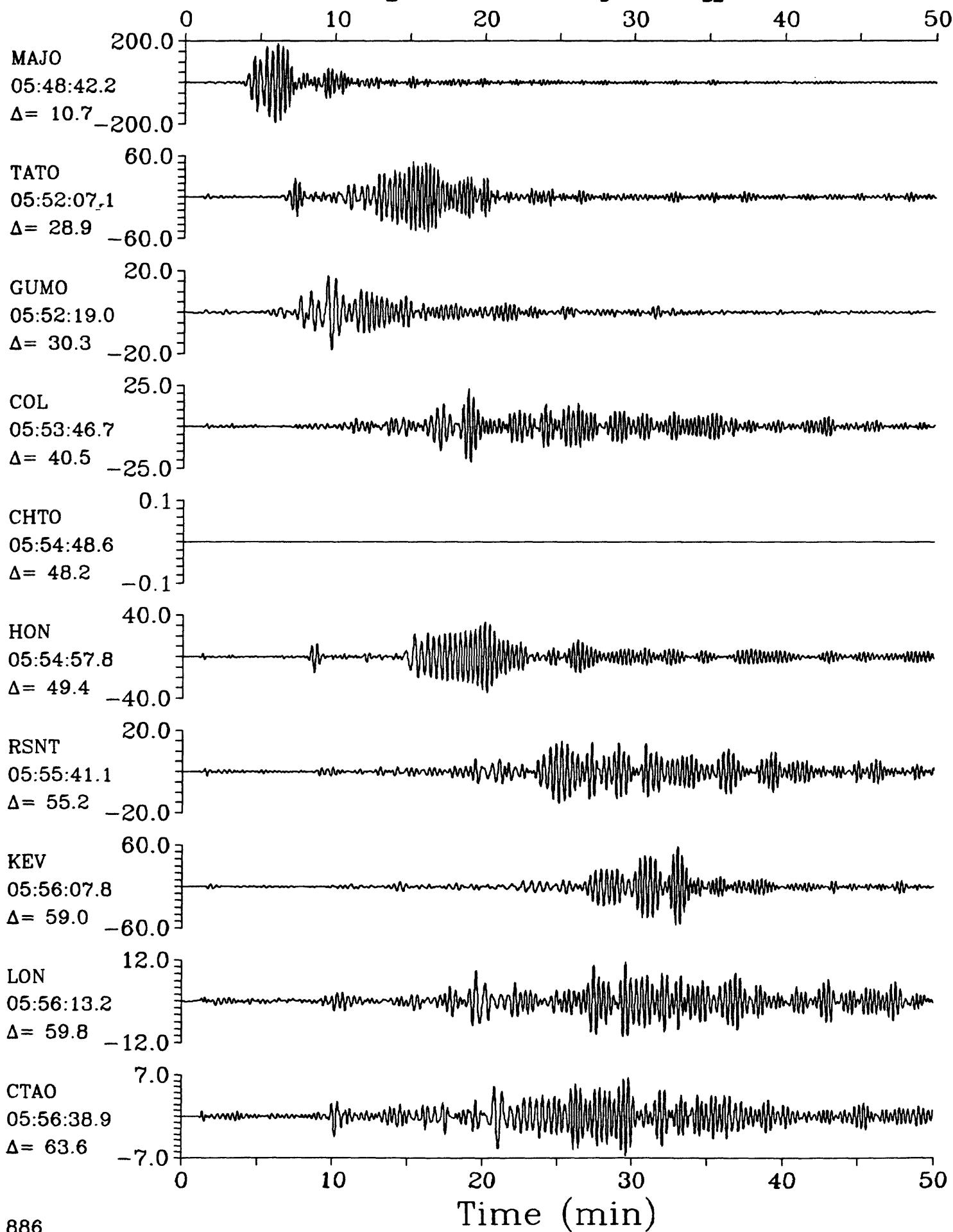
SPZ

Kuril Islands Region $h=37.9$ $m_b=6.1$ $M_{sz}=6.2$ 

LPZ

21 May 1986 05:47:11.28

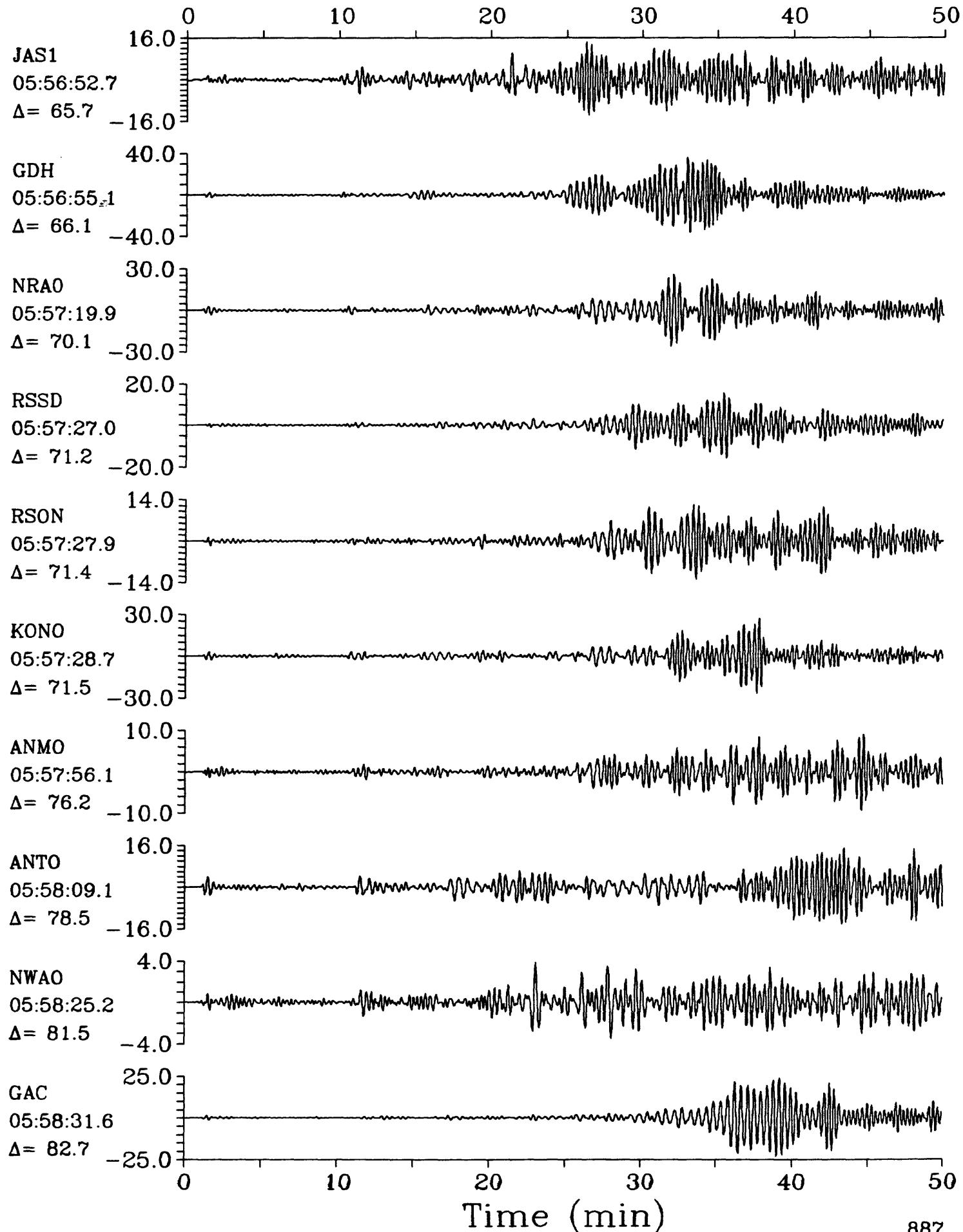
LPZ

Kuril Islands Region $h=37.9$ $m_b=6.1$ $M_{SZ}=6.2$ 

LPZ

21 May 1986 05:47:11.28

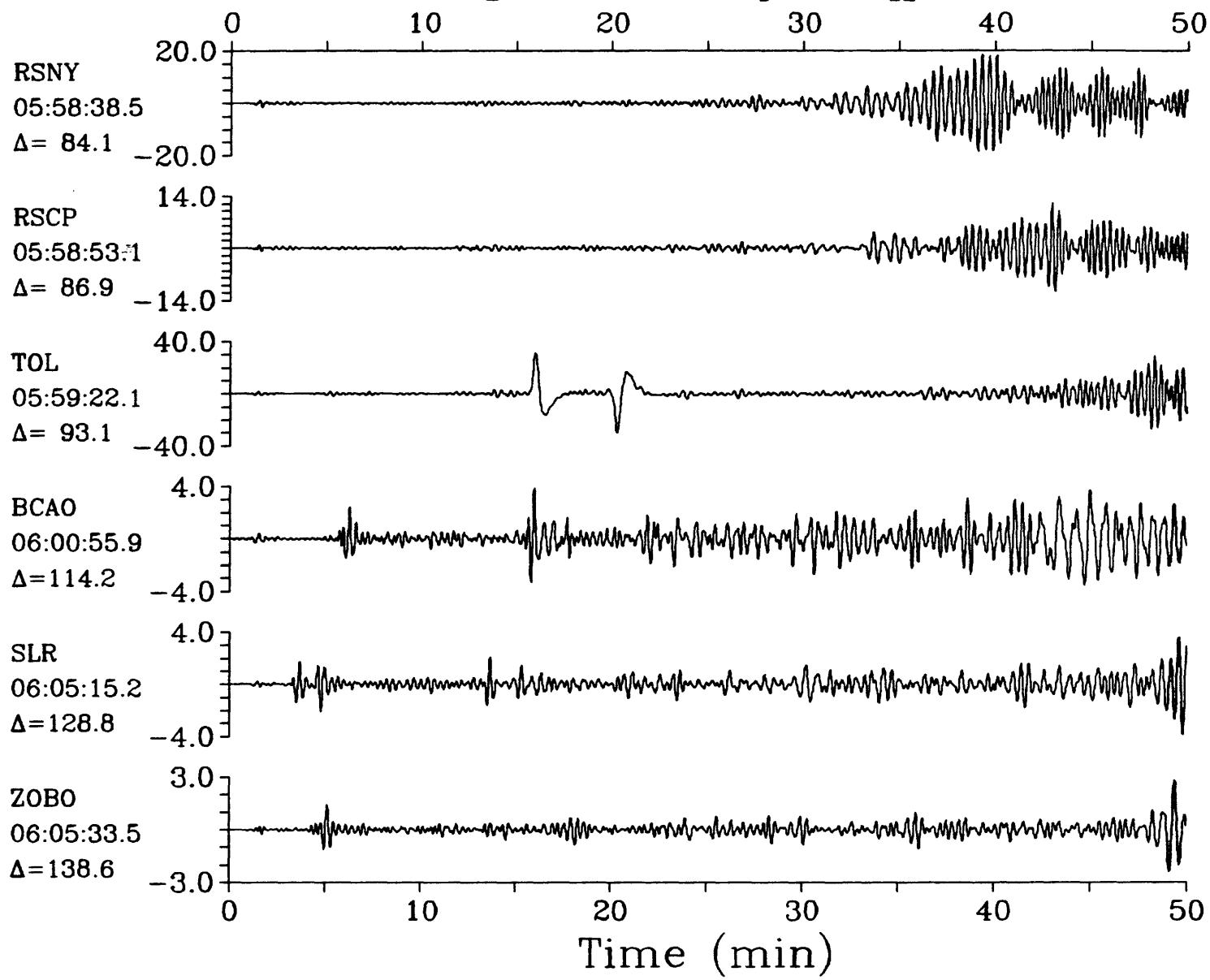
LPZ

Kuril Islands Region $h=37.9$ $m_b=6.1$ $M_{sz}=6.2$ 

LPZ

21 May 1986 05:47:11.28

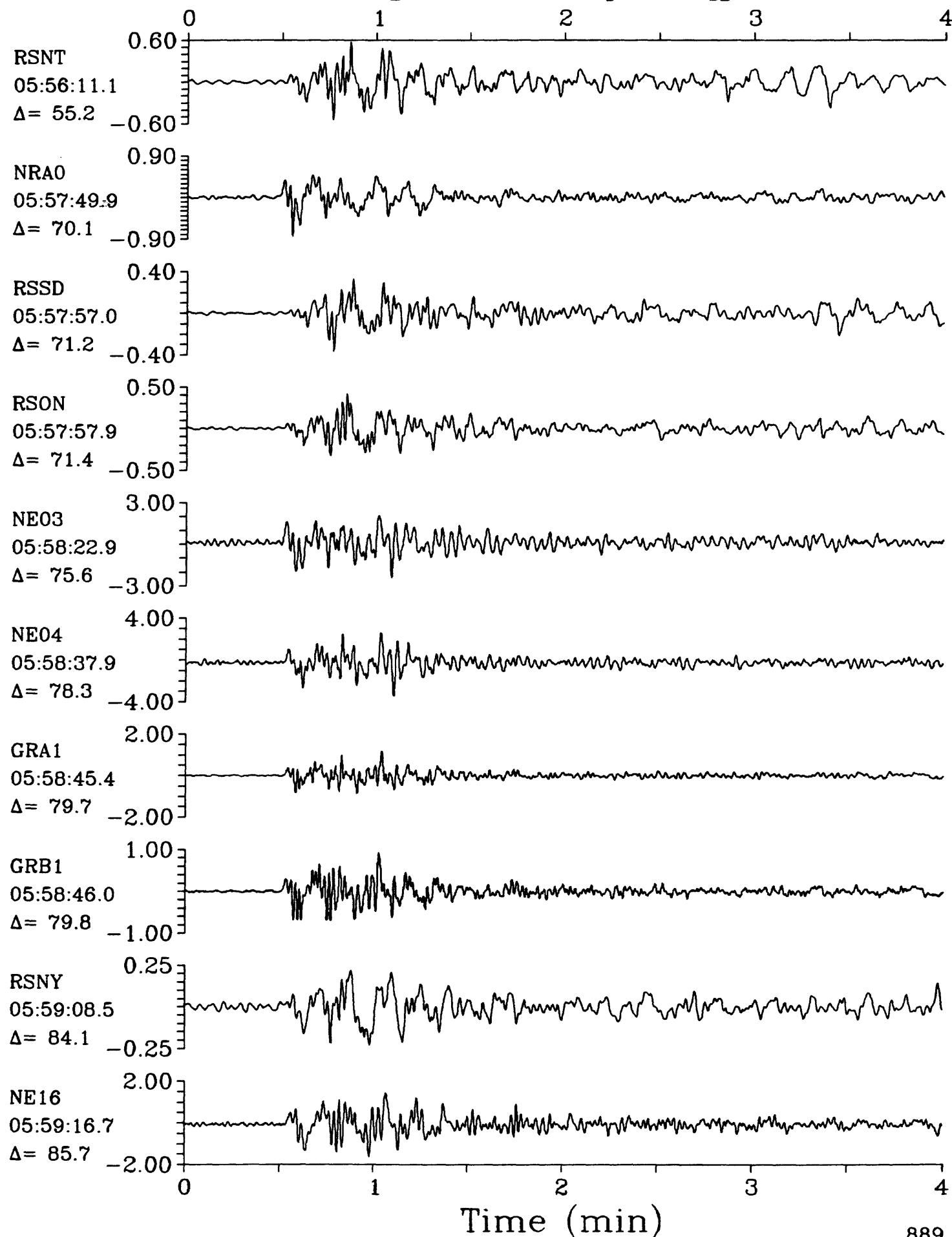
LPZ

Kuril Islands Region $h=37.9$ $m_b=6.1$ $M_{sz}=6.2$ 

IPZ

21 May 1986 05:47:11.28

IPZ

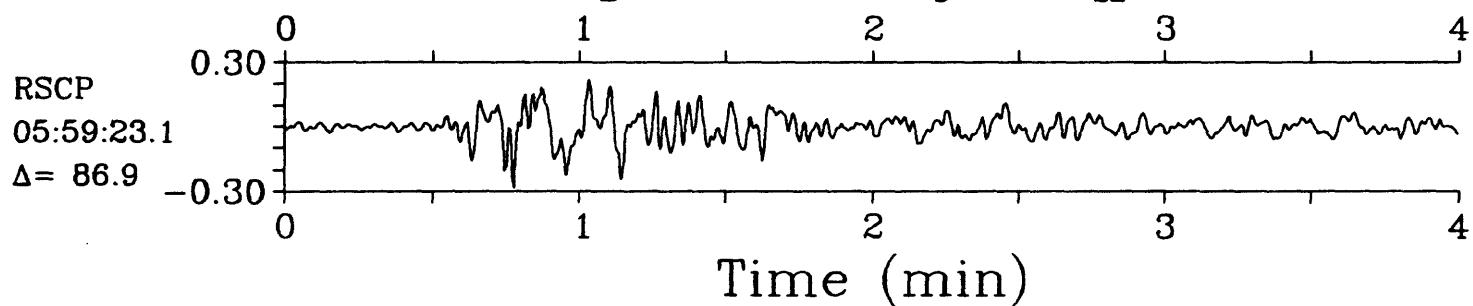
Kuril Islands Region $h=37.9$ $m_b=6.1$ $M_{sz}=6.2$ 

IPZ

21 May 1986 05:47:11.28

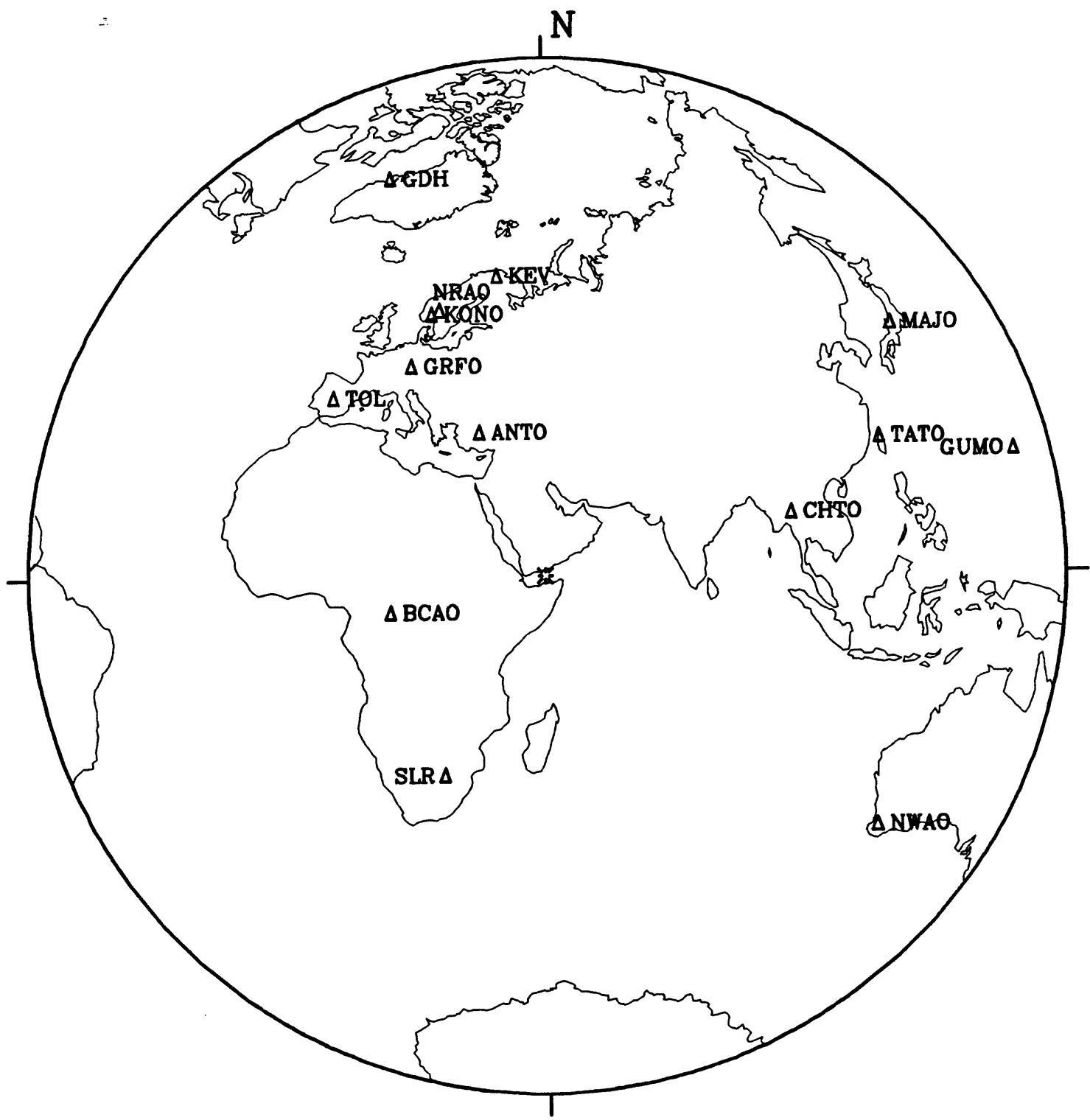
IPZ

Kuril Islands Region $h=37.9$ $m_b=6.1$ $M_{sz}=6.2$



23 May 1986 09:51:24.38

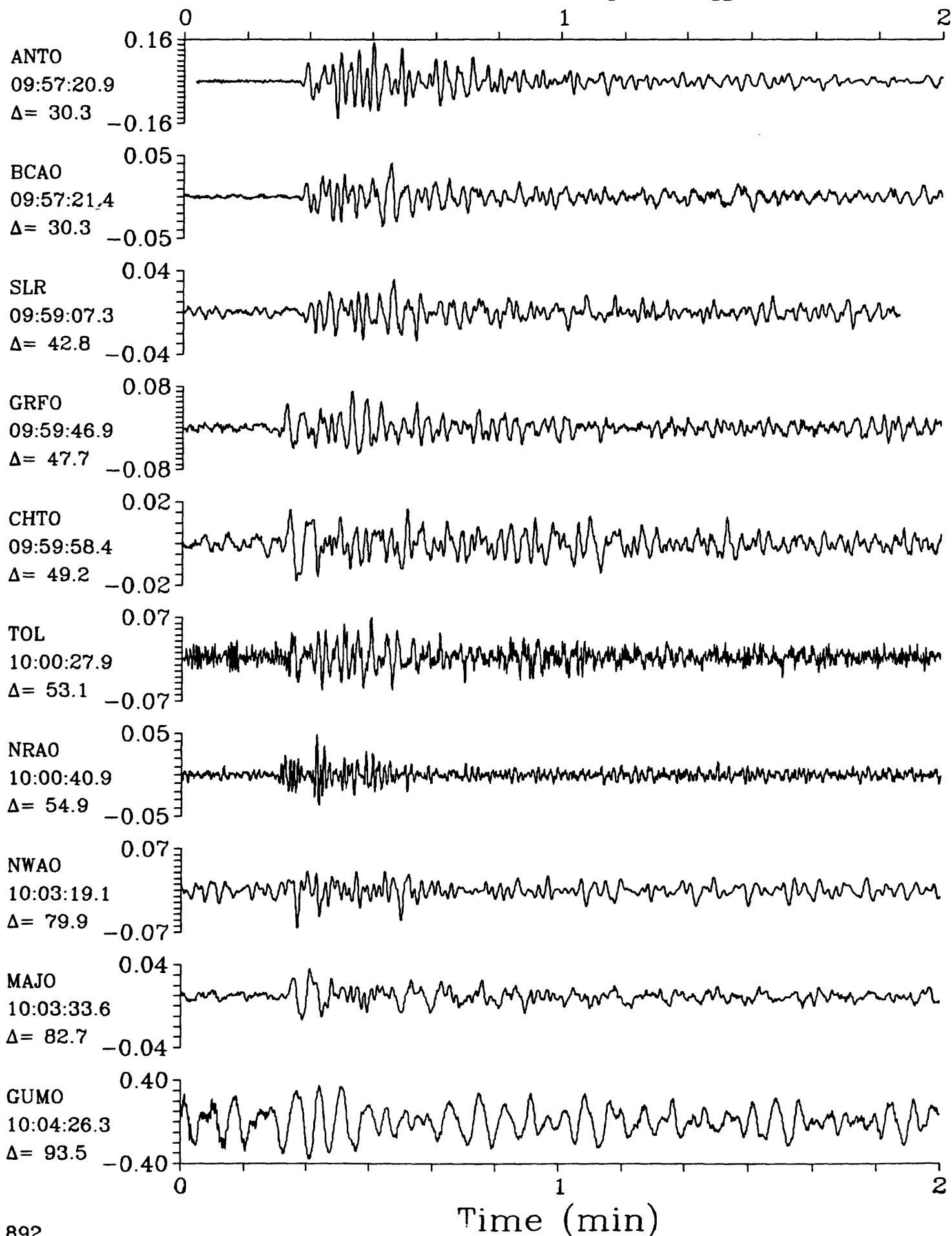
Eastern Gulf of Aden



SPZ

23 May 1986 09:51:24.38

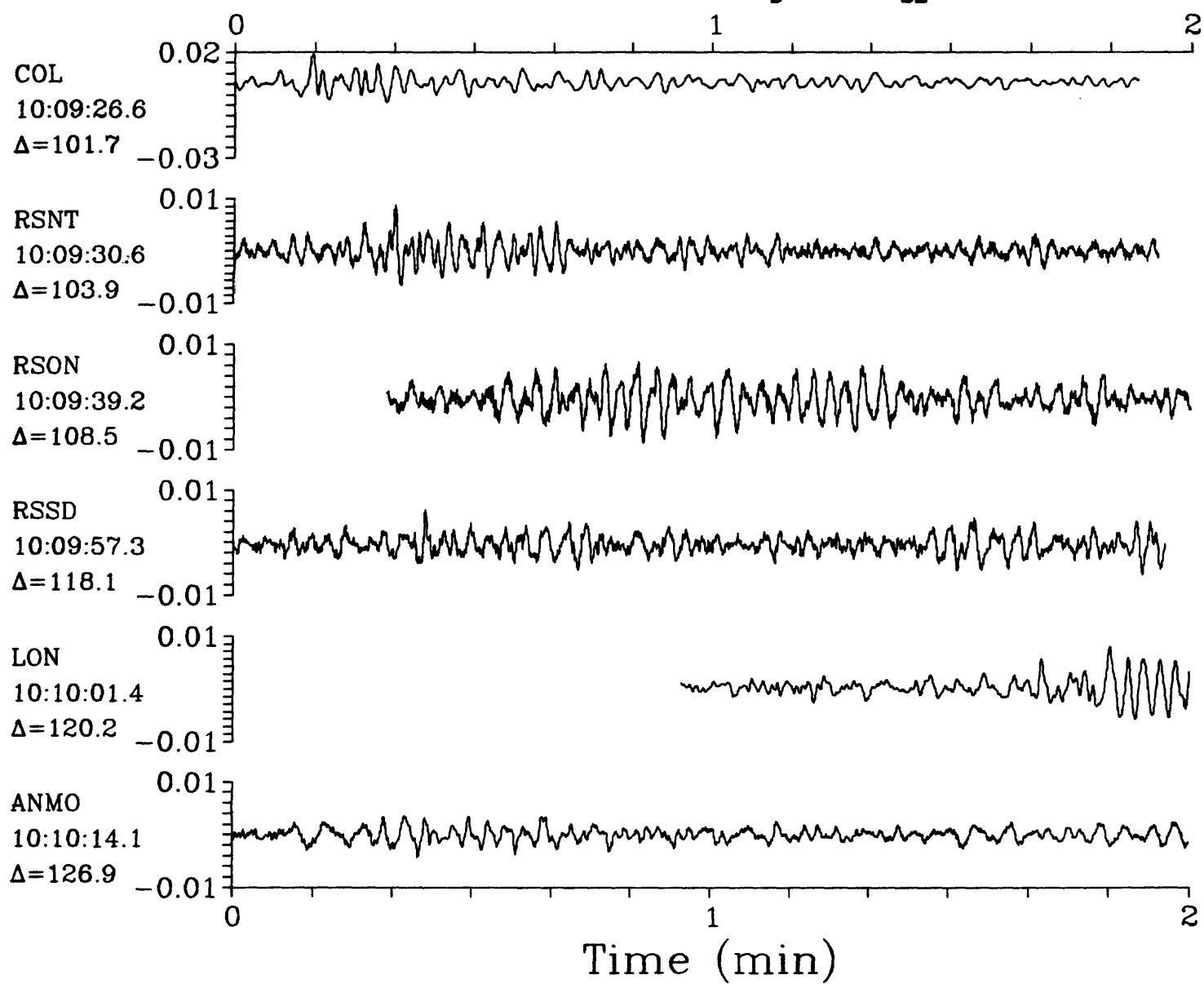
SPZ

Eastern Gulf of Aden $h=10.0$ $m_b=5.5$ $M_{sz}=5.4$ 

SPZ

23 May 1986 09:51:24.38

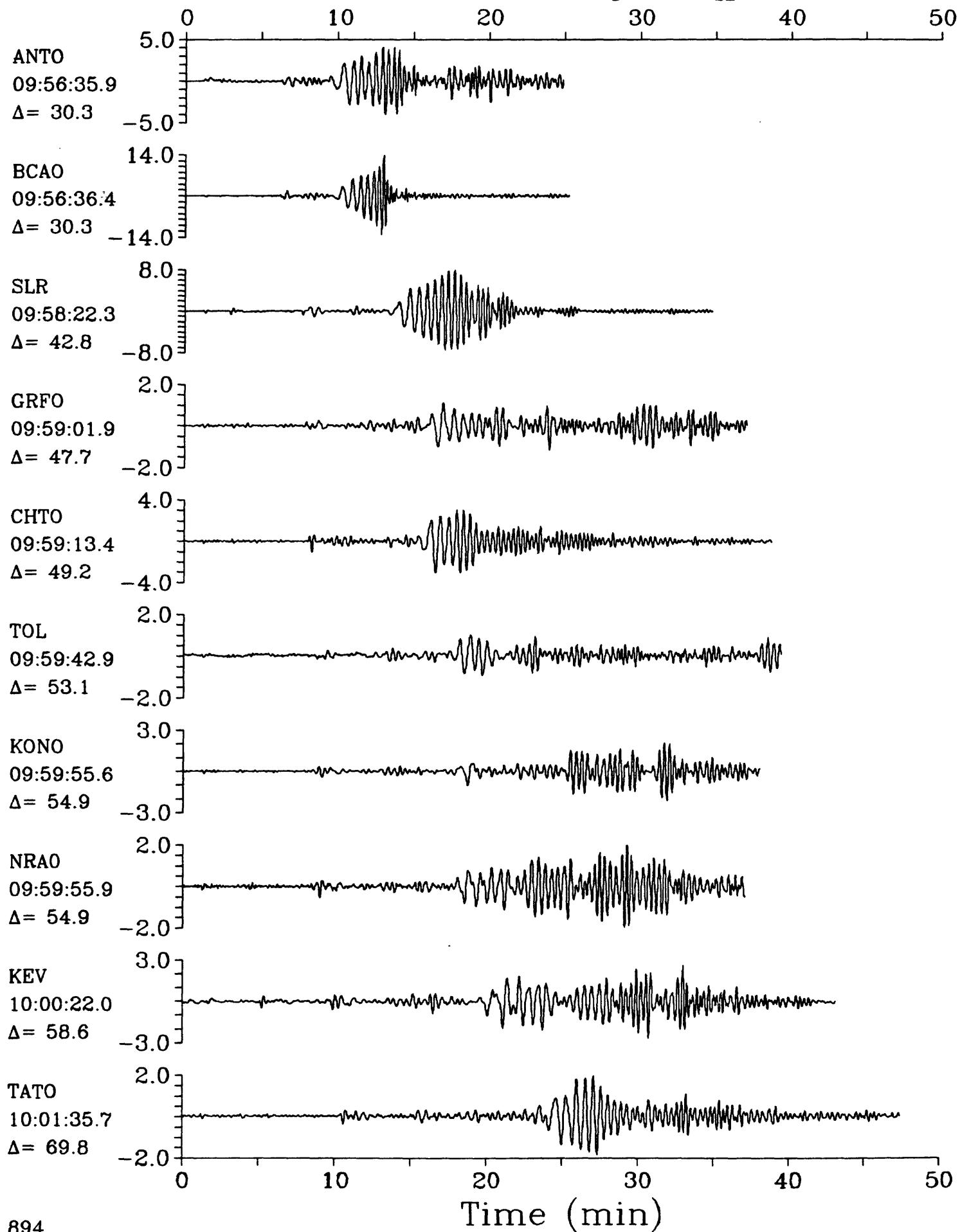
SPZ

Eastern Gulf of Aden $h=10.0$ $m_b=5.5$ $M_{SZ}=5.4$ 

LPZ

23 May 1986 09:51:24.38

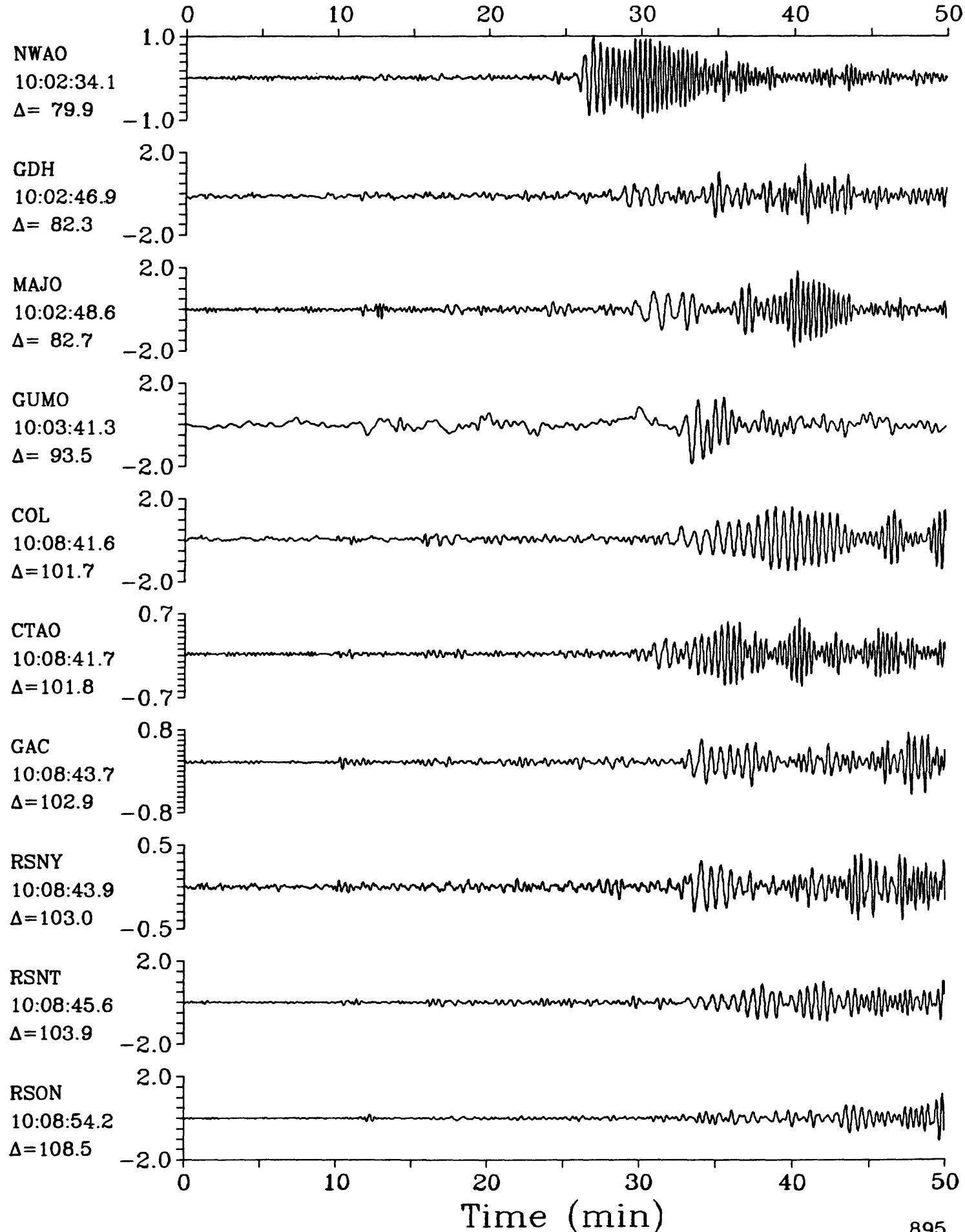
LPZ

Eastern Gulf of Aden $h=10.0$ $m_b=5.5$ $M_{sz}=5.4$ 

LPZ

23 May 1986 09:51:24.38

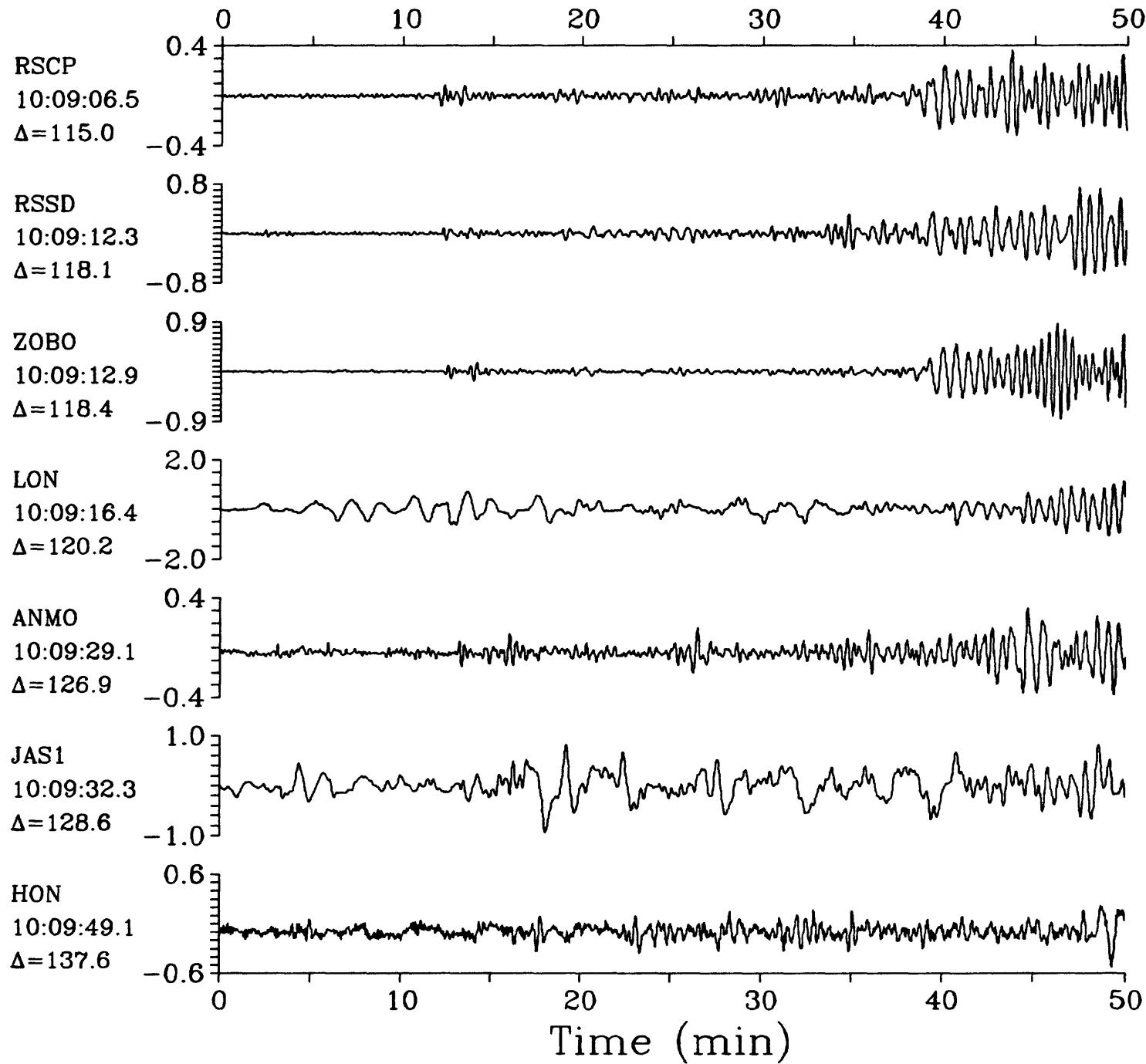
LPZ

Eastern Gulf of Aden $h=10.0$ $m_b=5.5$ $M_{SZ}=5.4$ 

LPZ

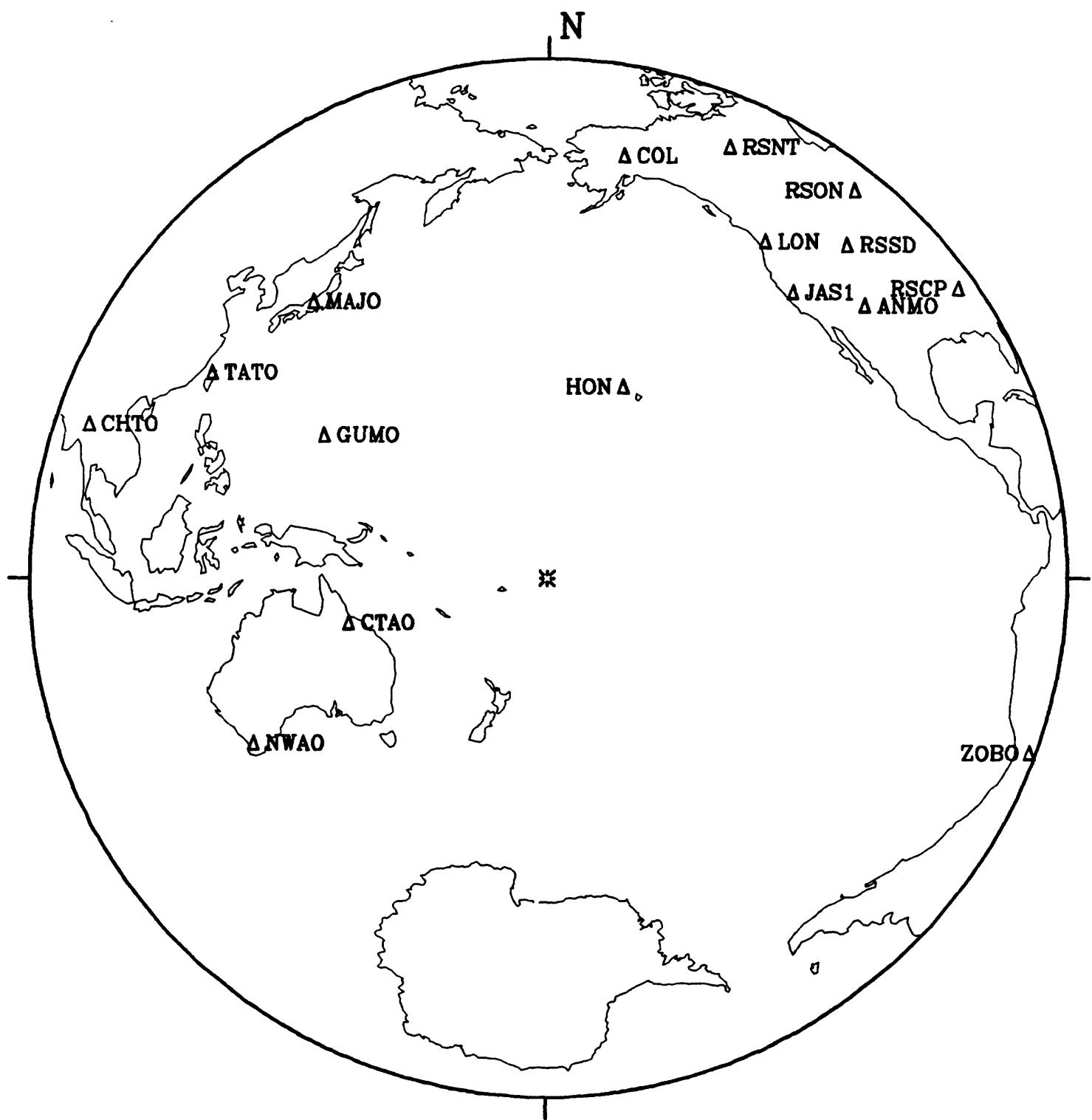
23 May 1986 09:51:24.38

LPZ

Eastern Gulf of Aden $h=10.0$ $m_b=5.5$ $M_{SZ}=5.4$ 

24 May 1986 10:43:35.23

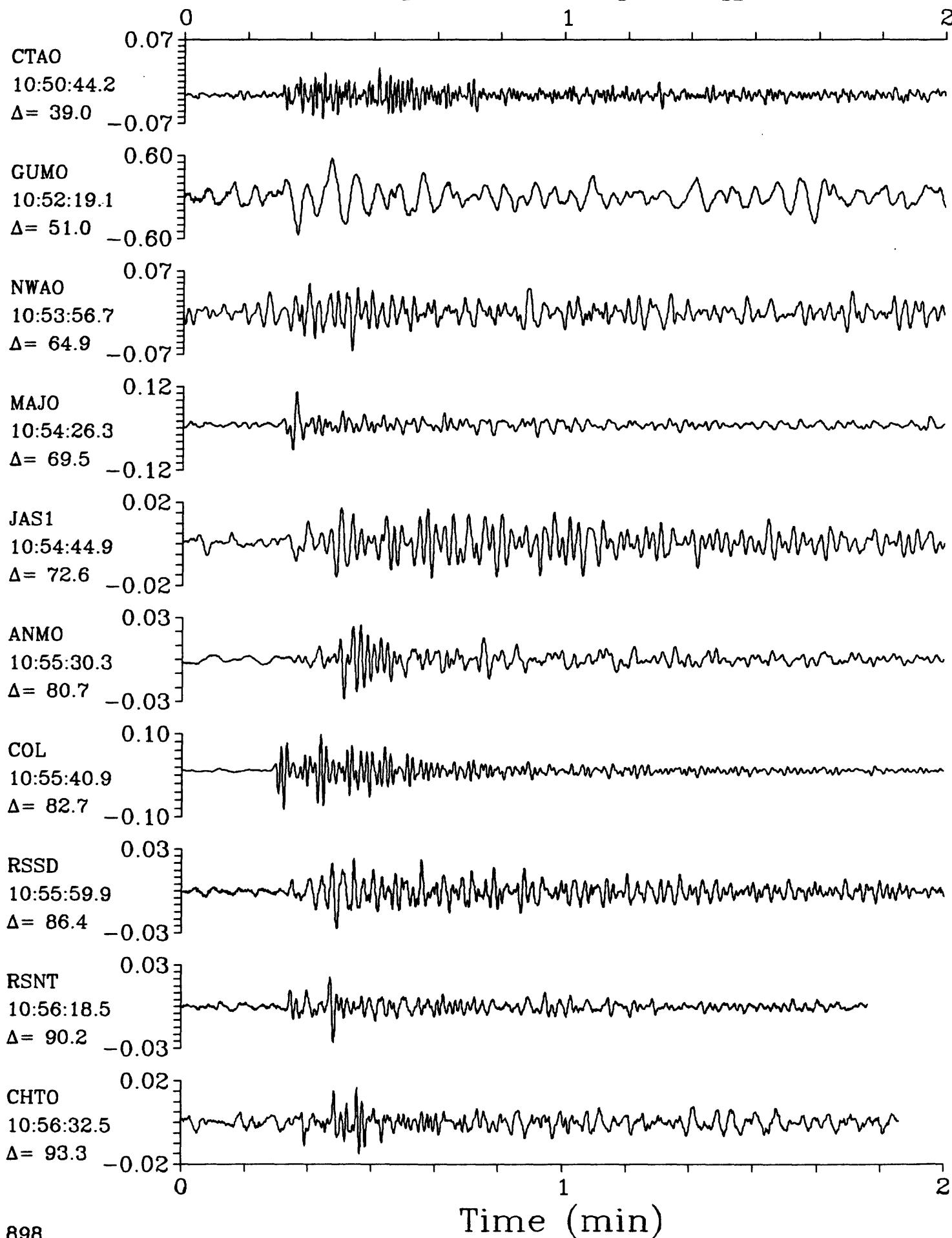
Samoa Islands Region



SPZ

24 May 1986 10:43:35.23

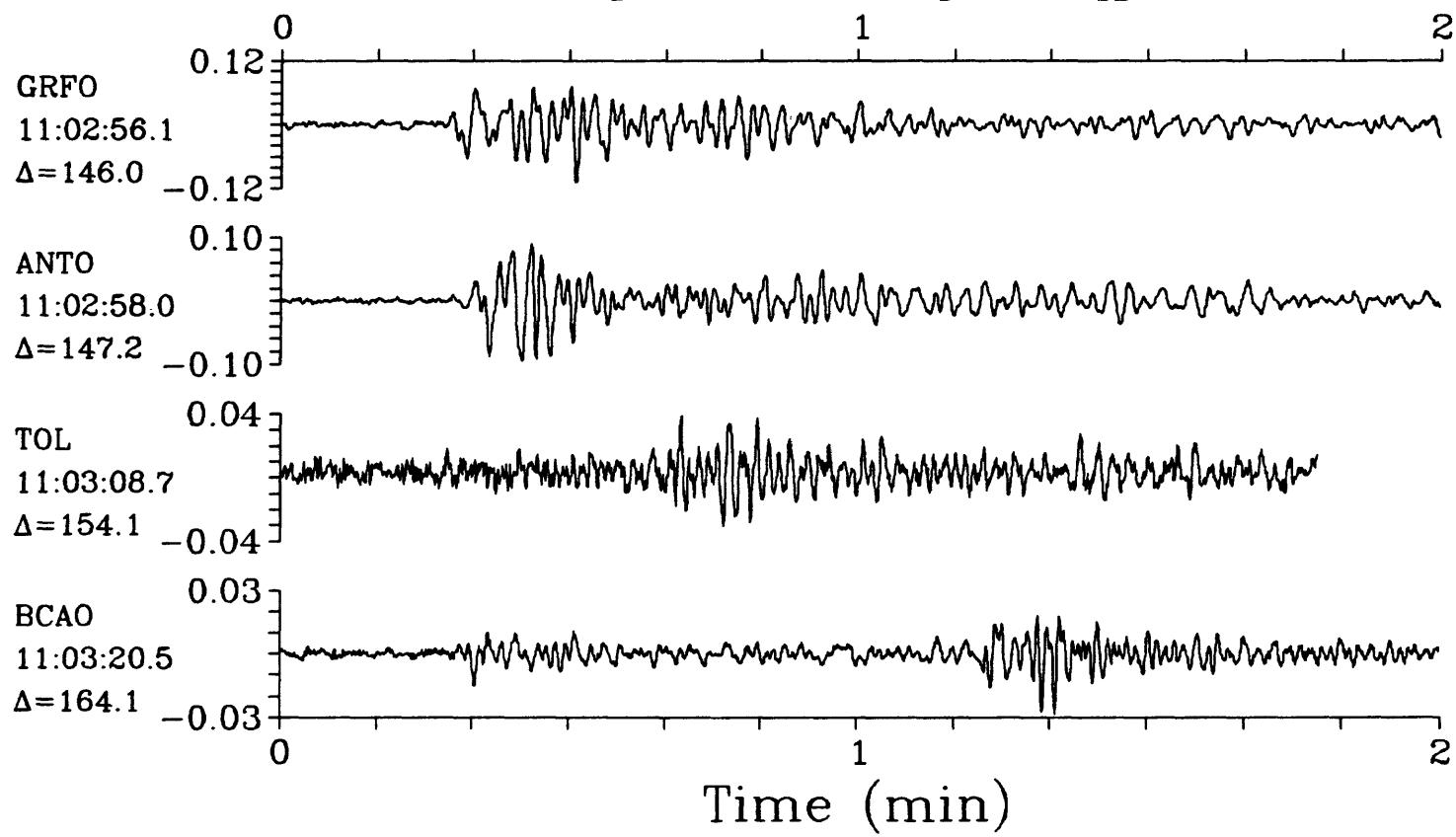
SPZ

Samoa Islands Region $h=33.0$ $m_b=5.5$ $M_{SZ}=5.7$ 

SPZ

24 May 1986 10:43:35.23

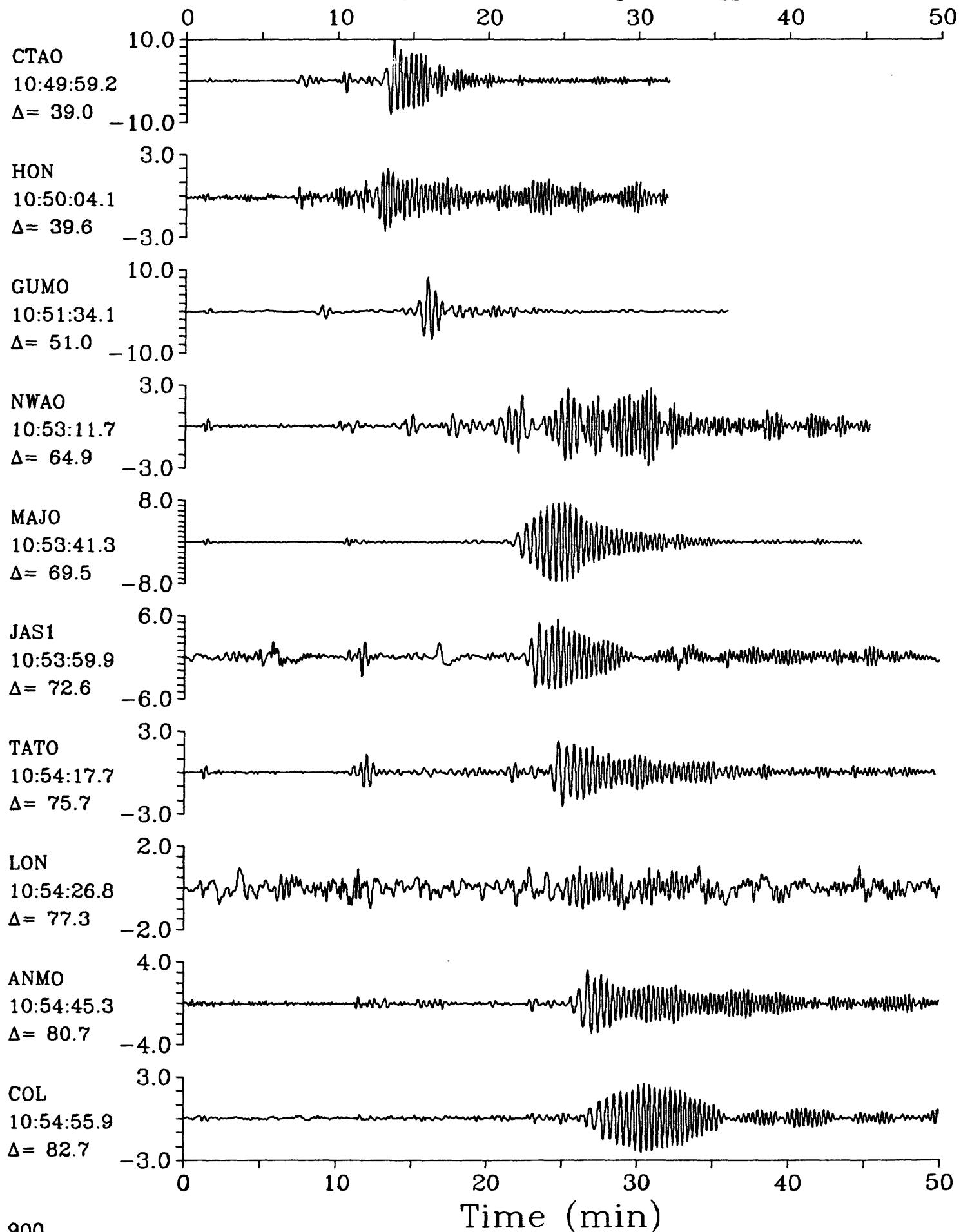
SPZ

Samoa Islands Region $h=33.0$ $m_b=5.5$ $M_{SZ}=5.7$ 

LPZ

24 May 1986 10:43:35.23

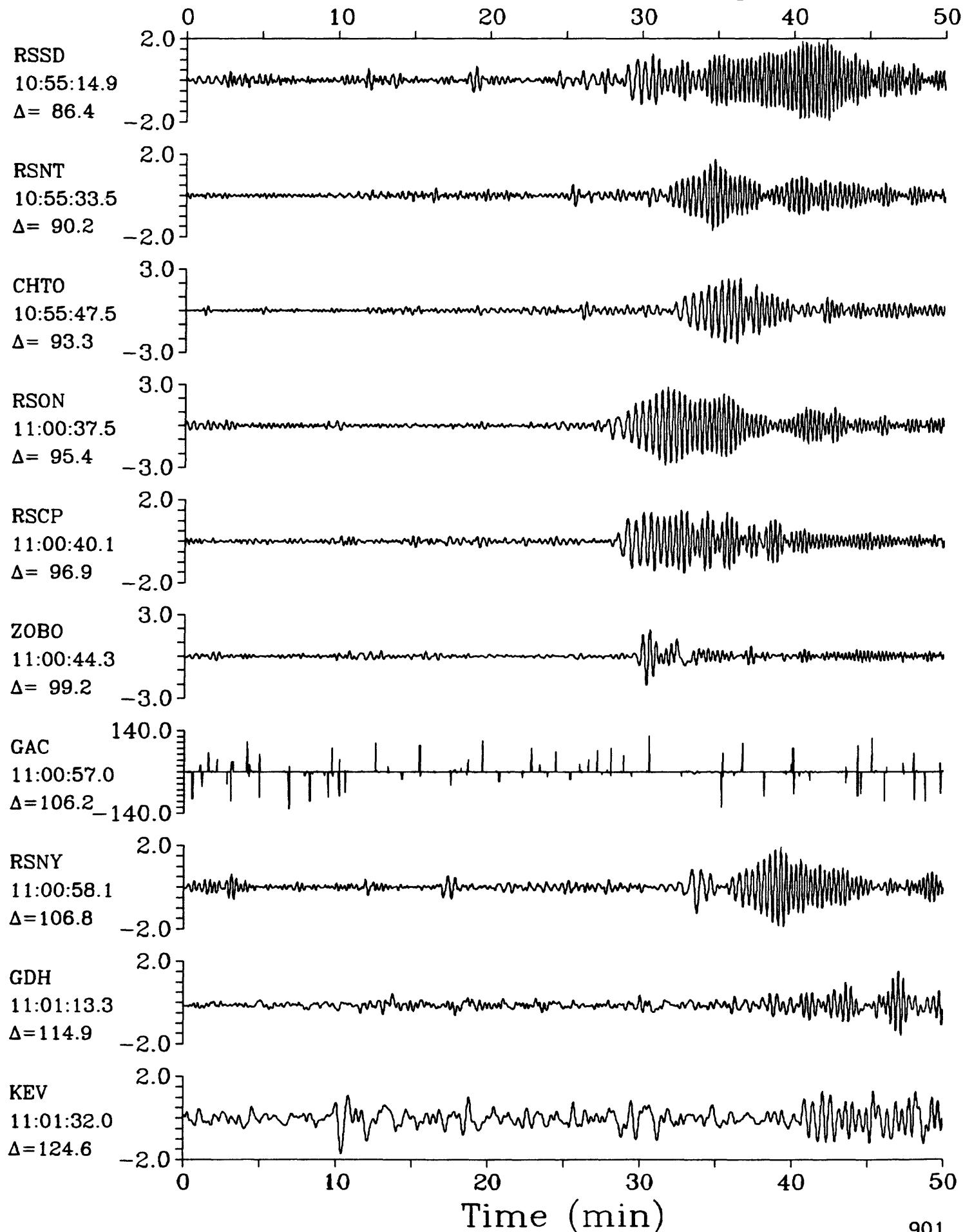
LPZ

Samoa Islands Region $h=33.0$ $m_b=5.5$ $M_{sz}=5.7$ 

LPZ

24 May 1986 10:43:35.23

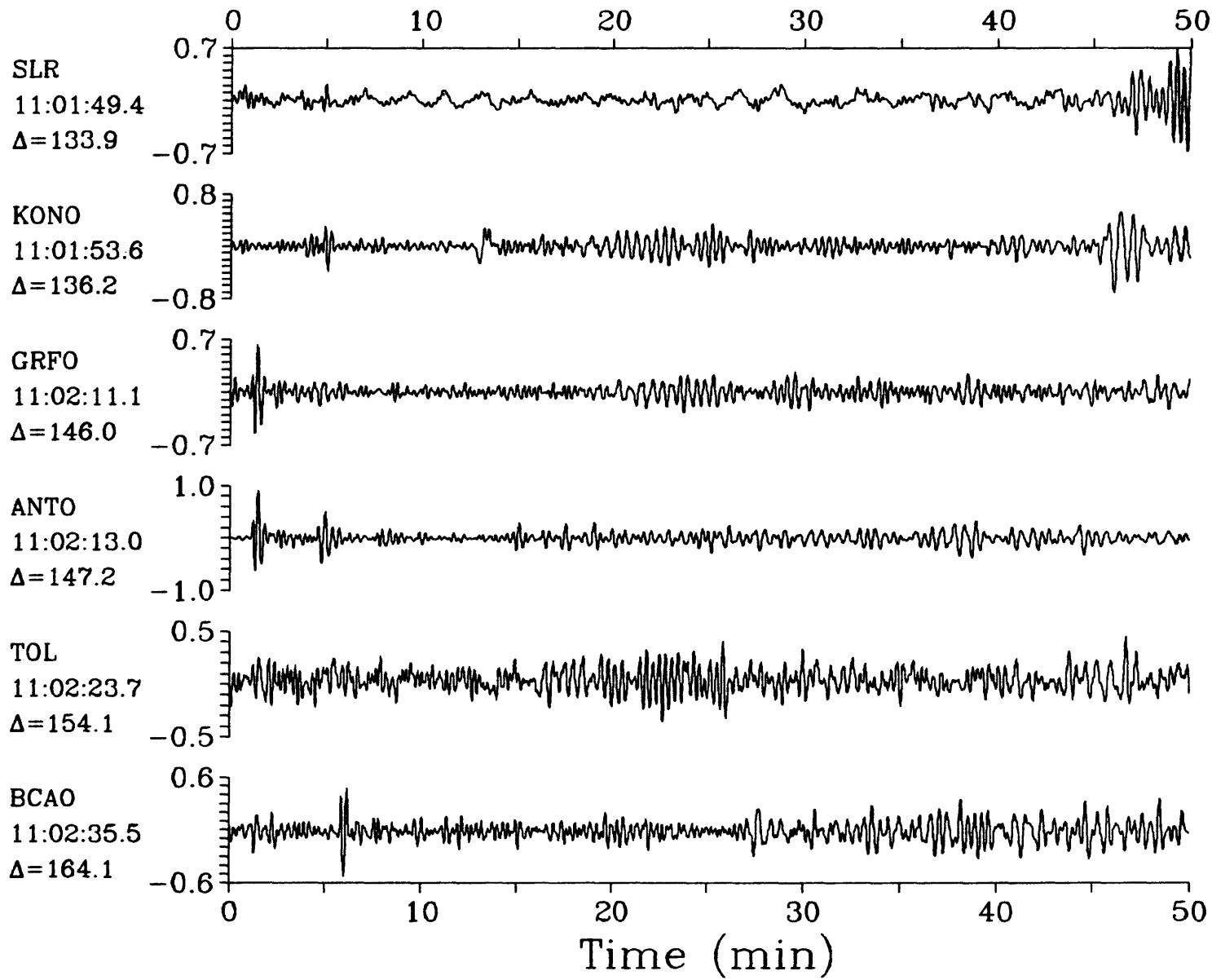
LPZ

Samoa Islands Region $h=33.0$ $m_b=5.5$ $M_{sz}=5.7$ 

LPZ

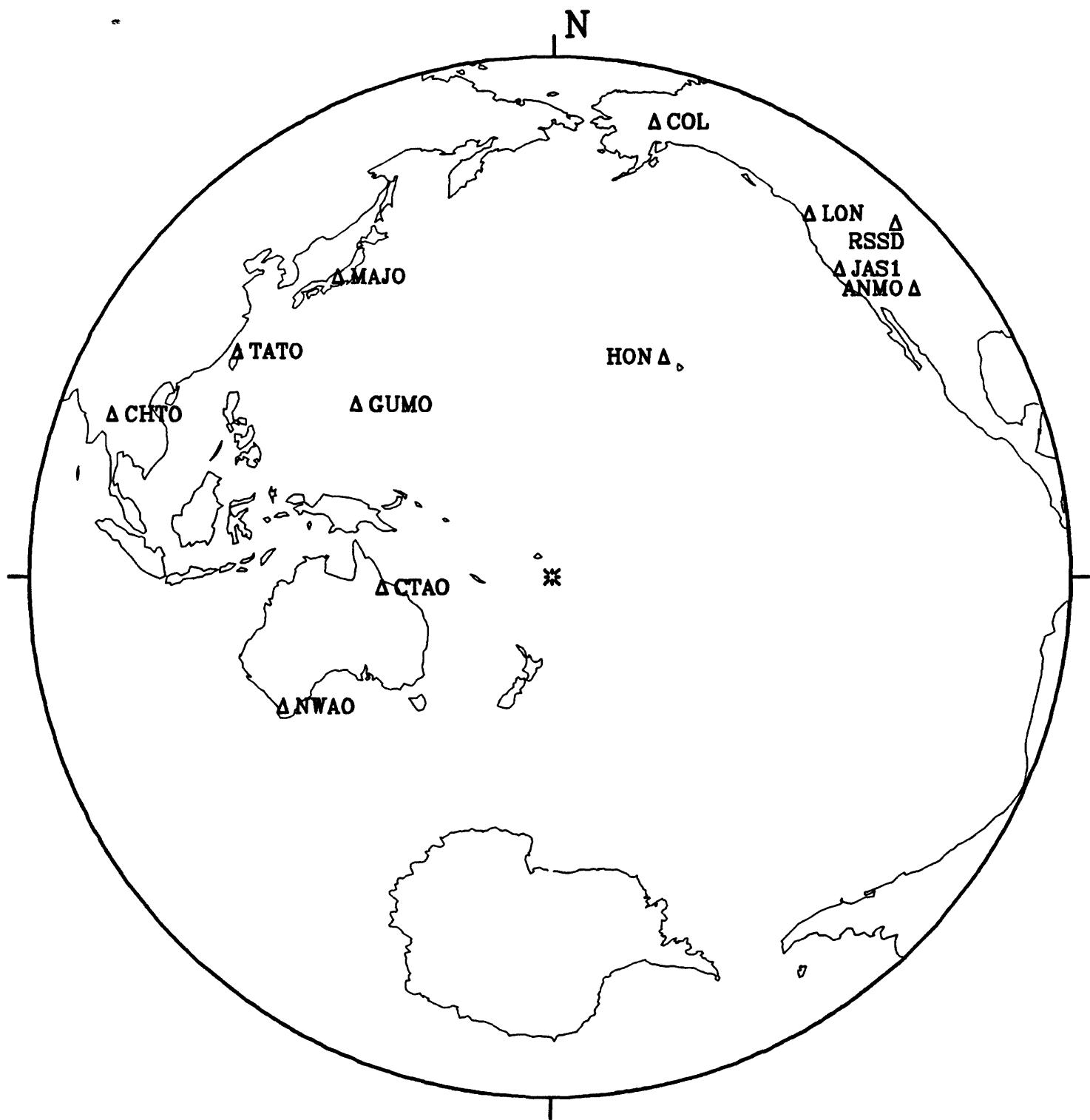
24 May 1986 10:43:35.23

LPZ

Samoa Islands Region $h=33.0$ $m_b=5.5$ $M_{SZ}=5.7$ 

26 May 1986 18:40:46.12

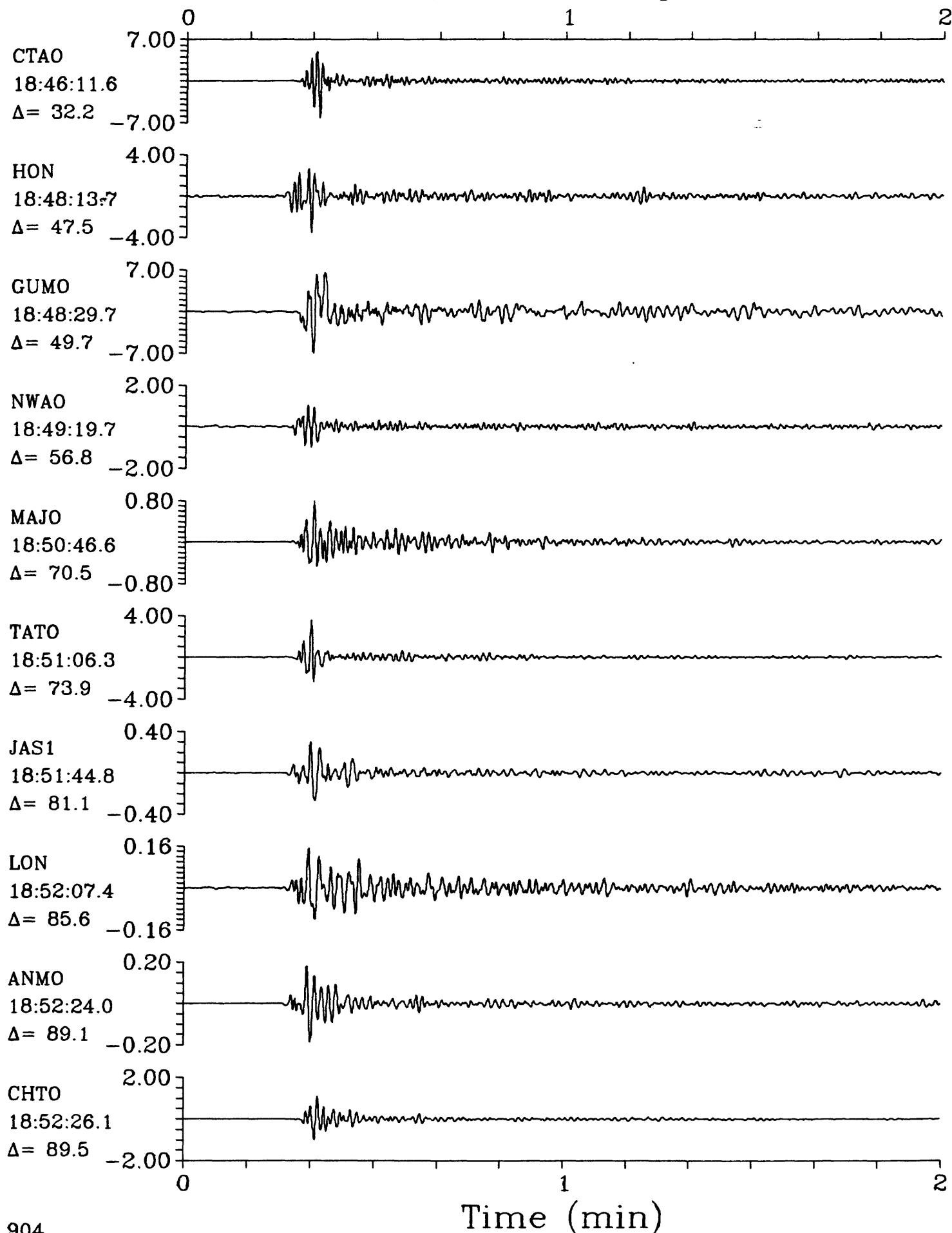
Fiji Islands Region



SPZ

26 May 1986 18:40:46.12
Fiji Islands Region $h=603.8$ $m_b=5.9$

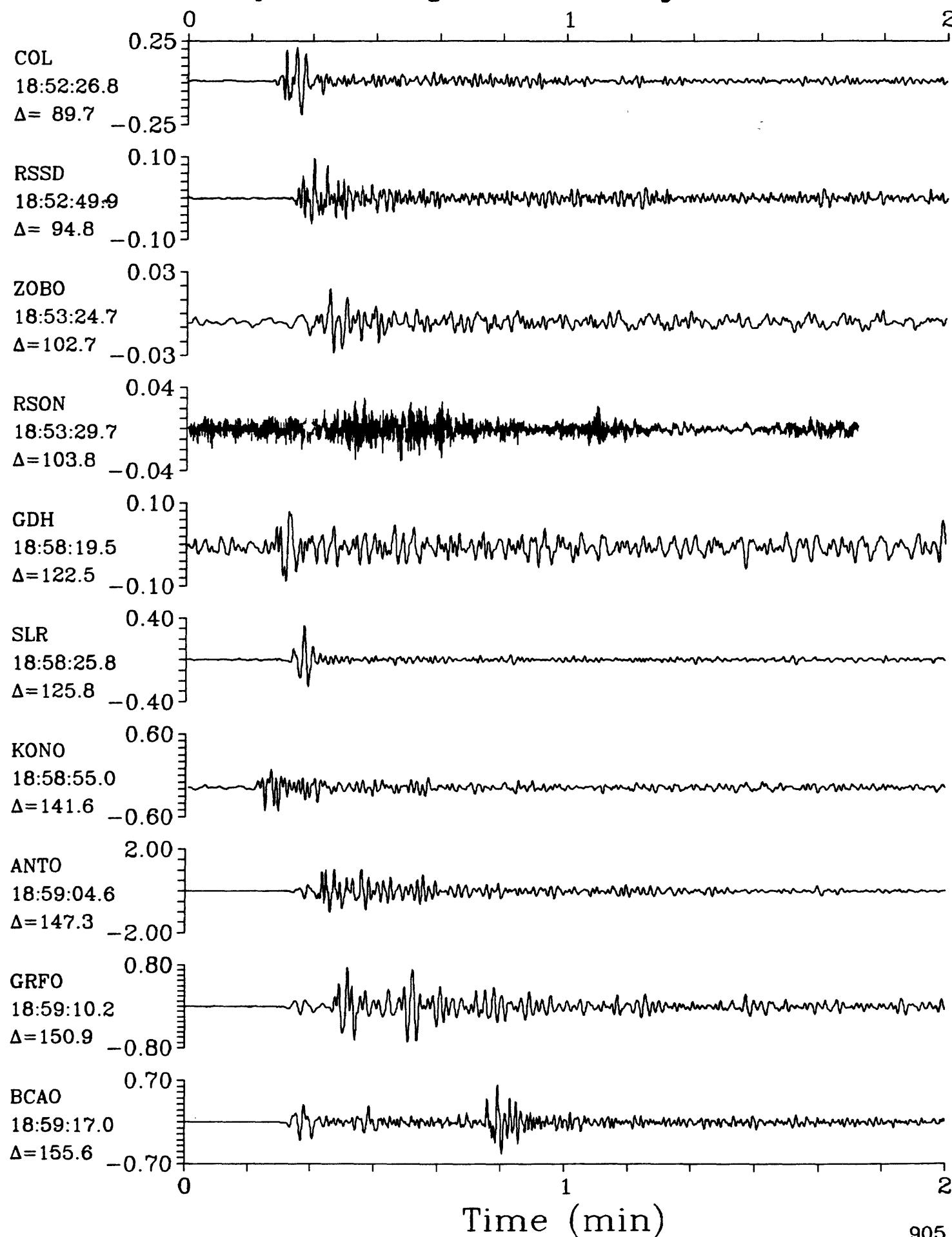
SPZ



SPZ

26 May 1986 18:40:46.12
Fiji Islands Region $h=603.8$ $m_b=5.9$

SPZ



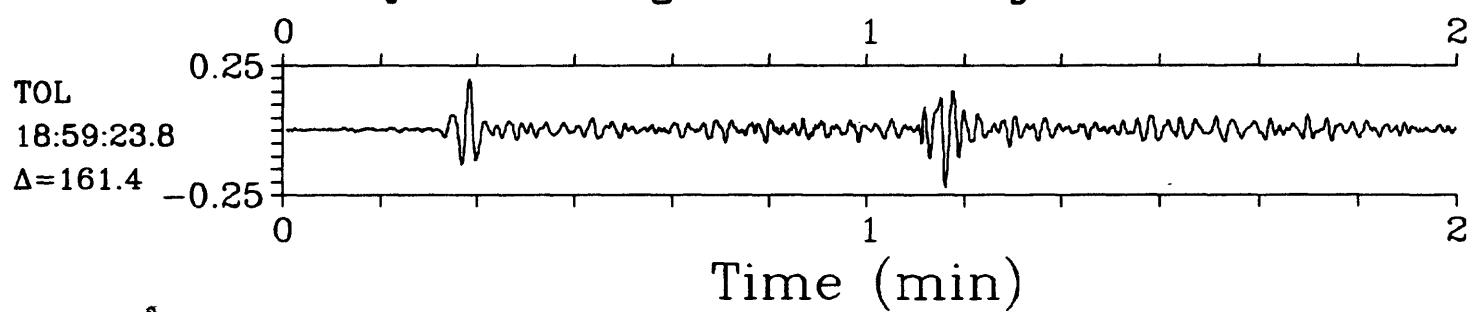
Time (min)

905

SPZ

26 May 1986 18:40:46.12
Fiji Islands Region $h=603.8$ $m_b=5.9$

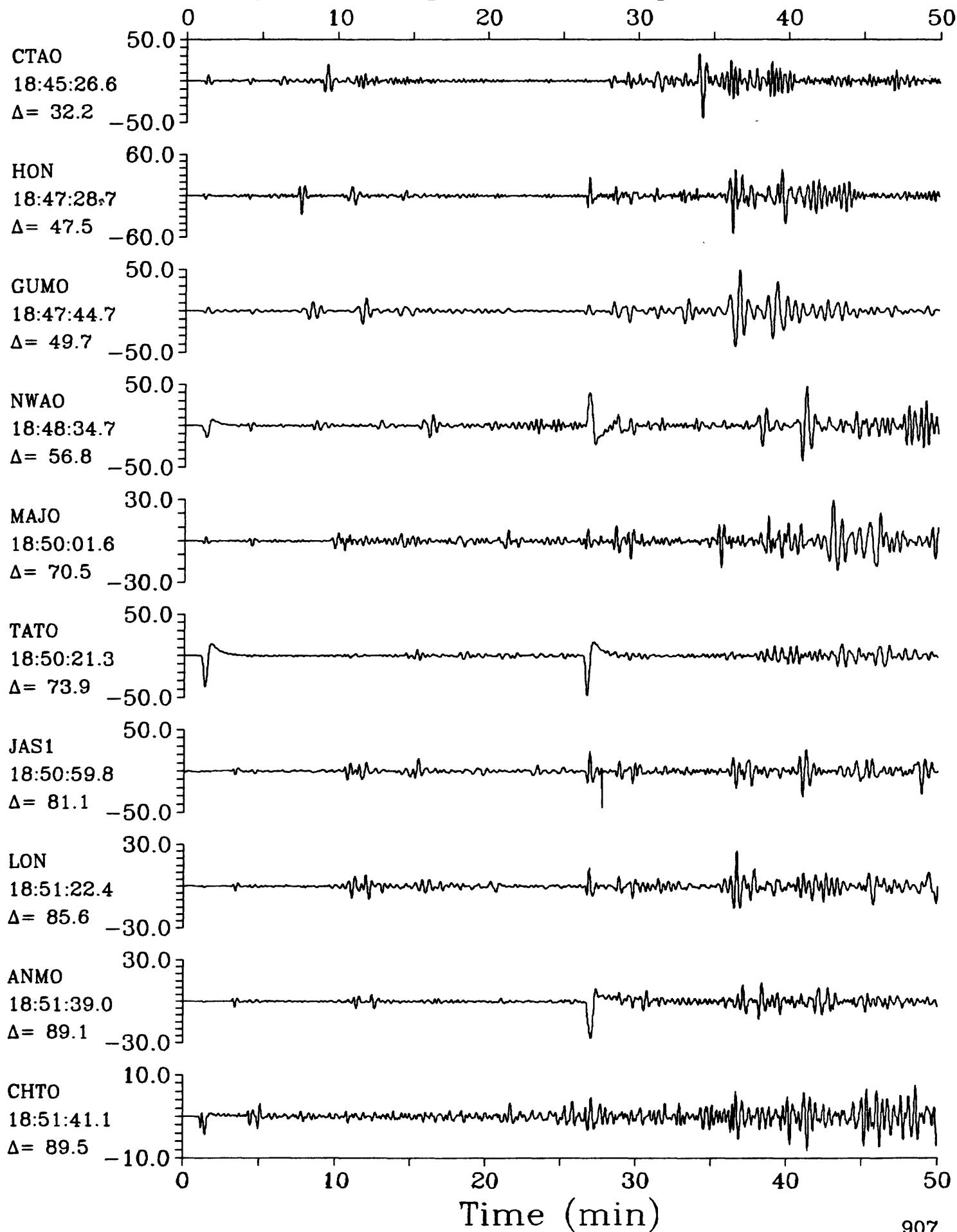
SPZ



LPZ

26 May 1986 18:40:46.12
Fiji Islands Region h=603.8 m_b=5.9

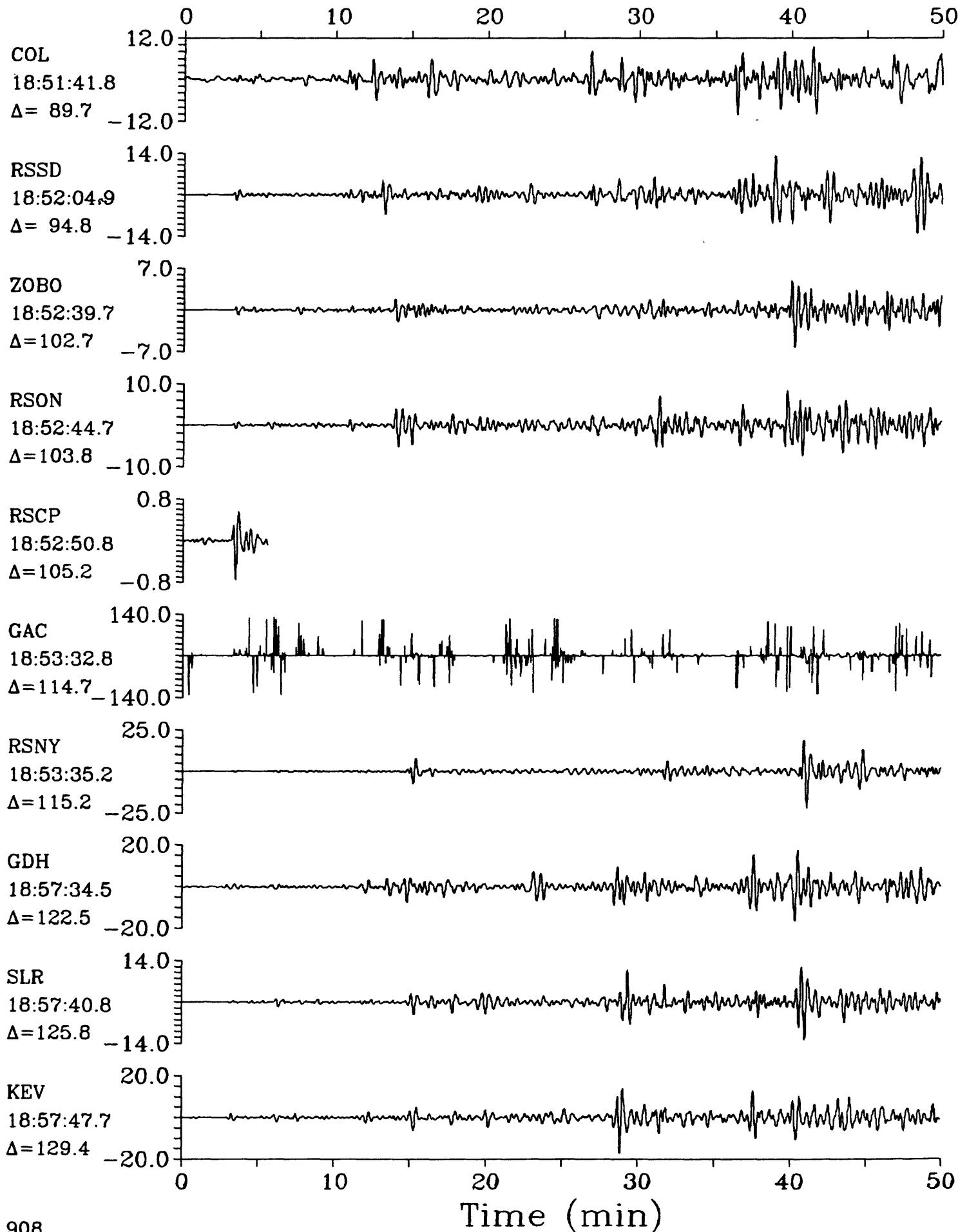
LPZ



LPZ

26 May 1986 18:40:46.12
Fiji Islands Region h=603.8 m_b=5.9

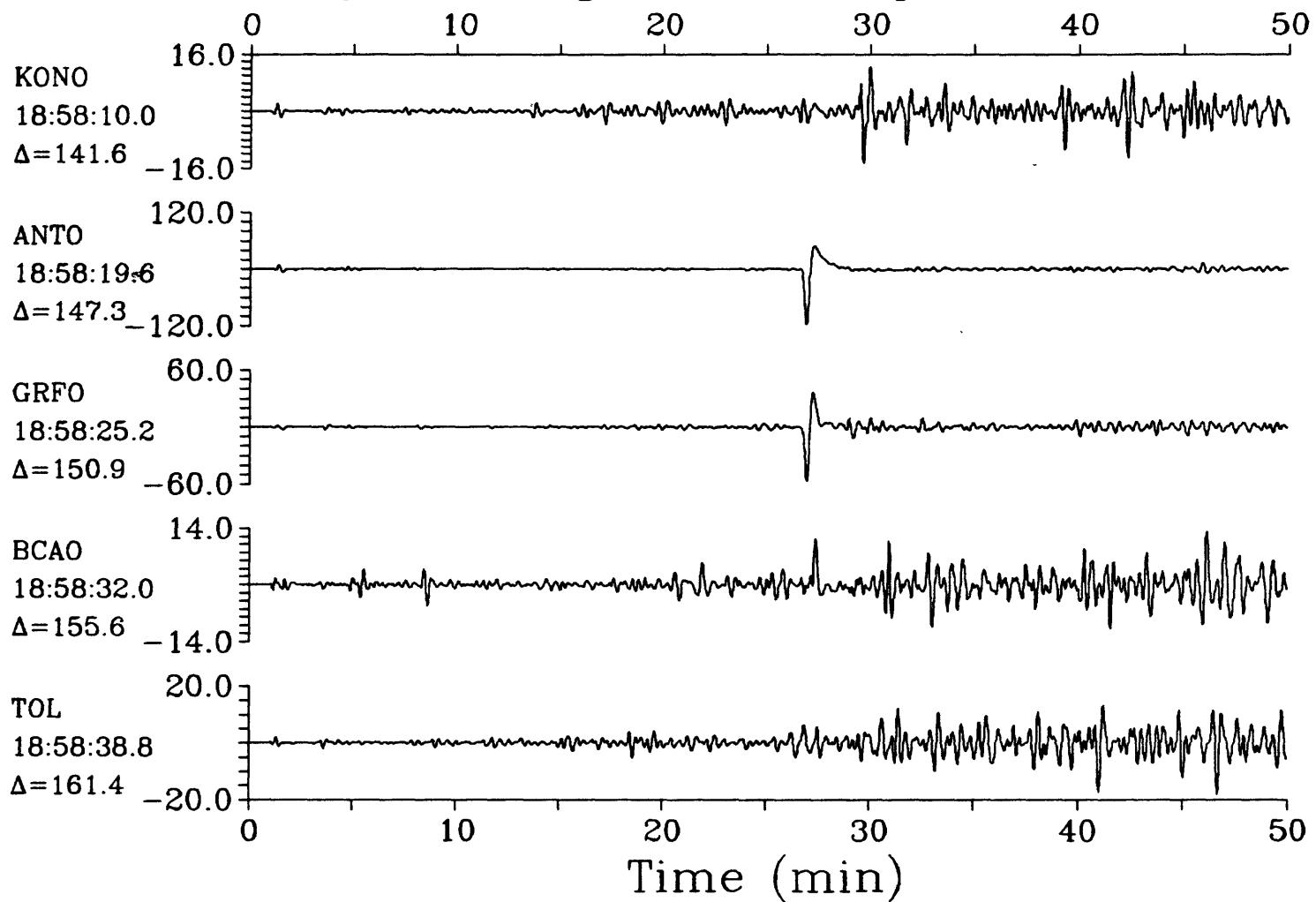
LPZ



LPZ

26 May 1986 18:40:46.12
Fiji Islands Region h=603.8 m_b=5.9

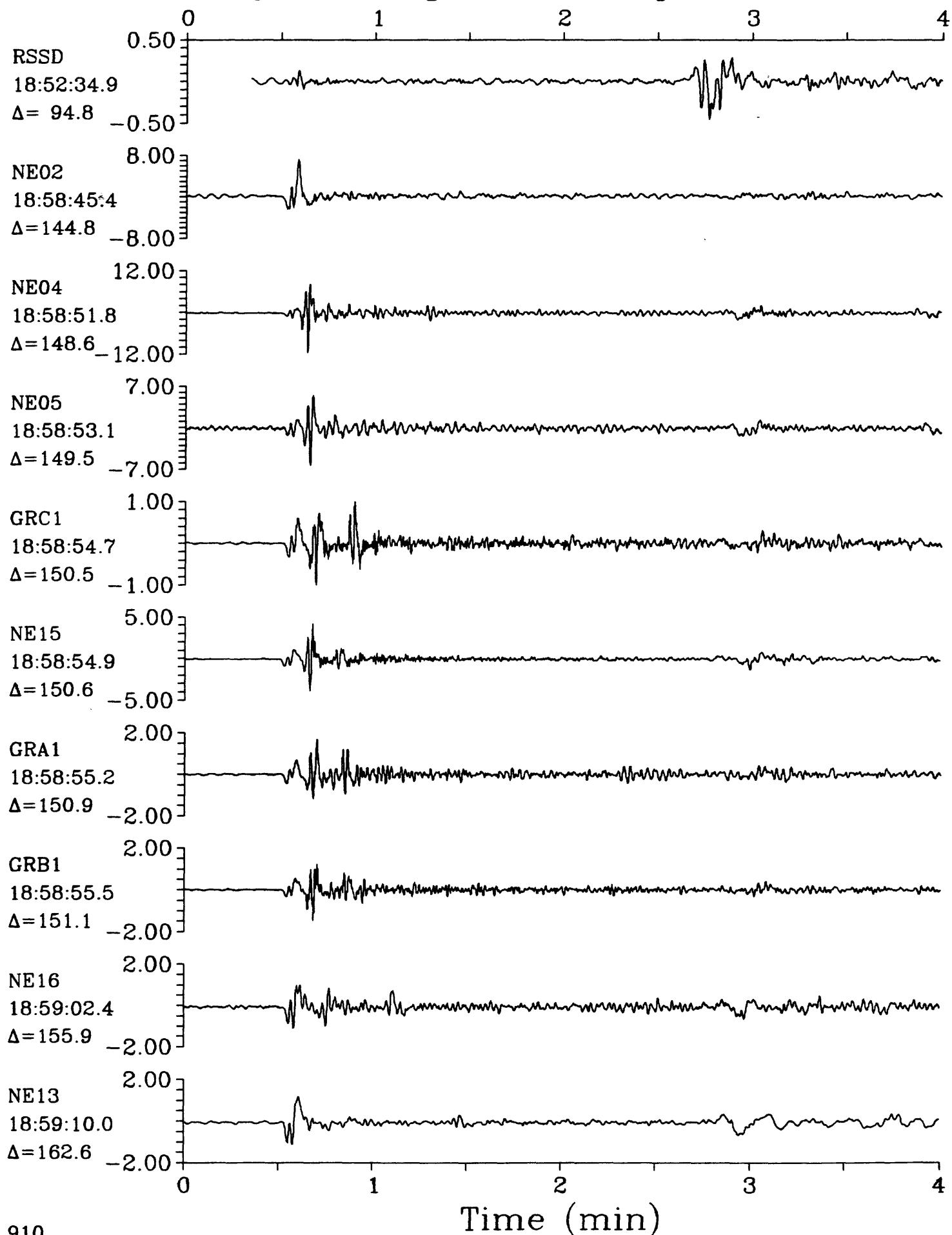
LPZ



IPZ

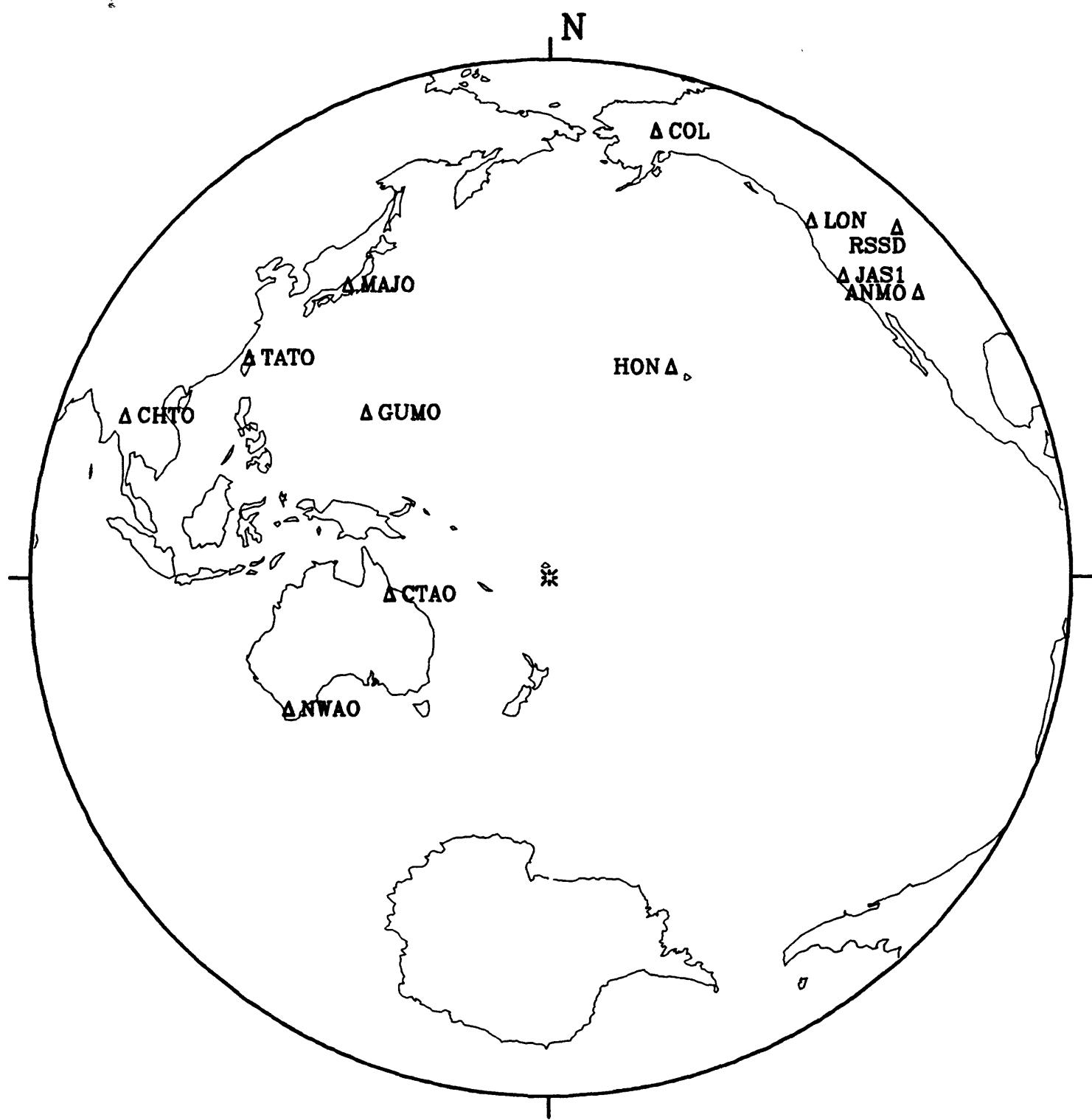
26 May 1986 18:40:46.12
Fiji Islands Region h=603.8 m_b=5.9

IPZ



26 May 1986 19:06:17.50

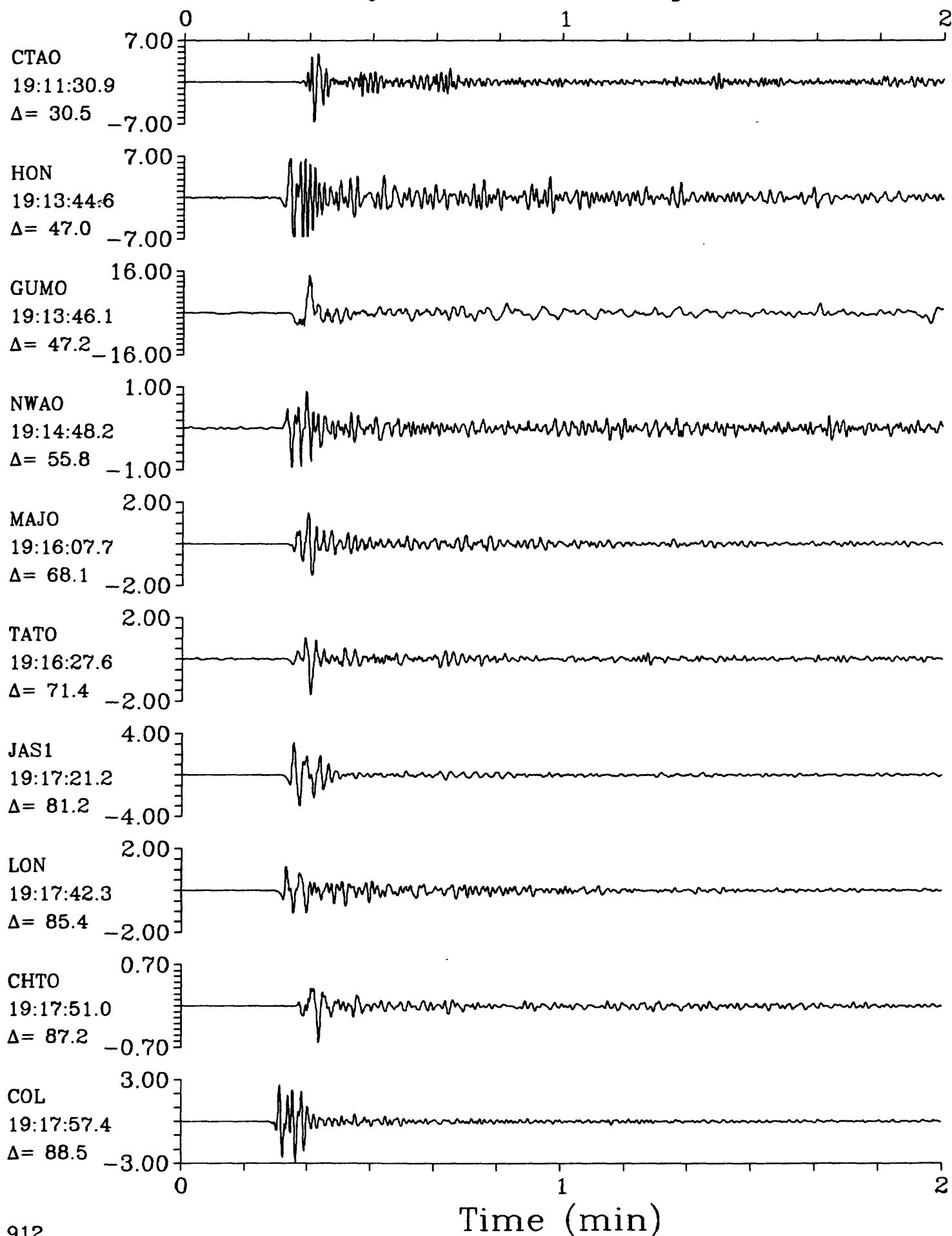
South of Fiji Islands



SPZ

26 May 1986 19:06:17.50
South of Fiji Islands $h=553.2$ $m_b=6.8$

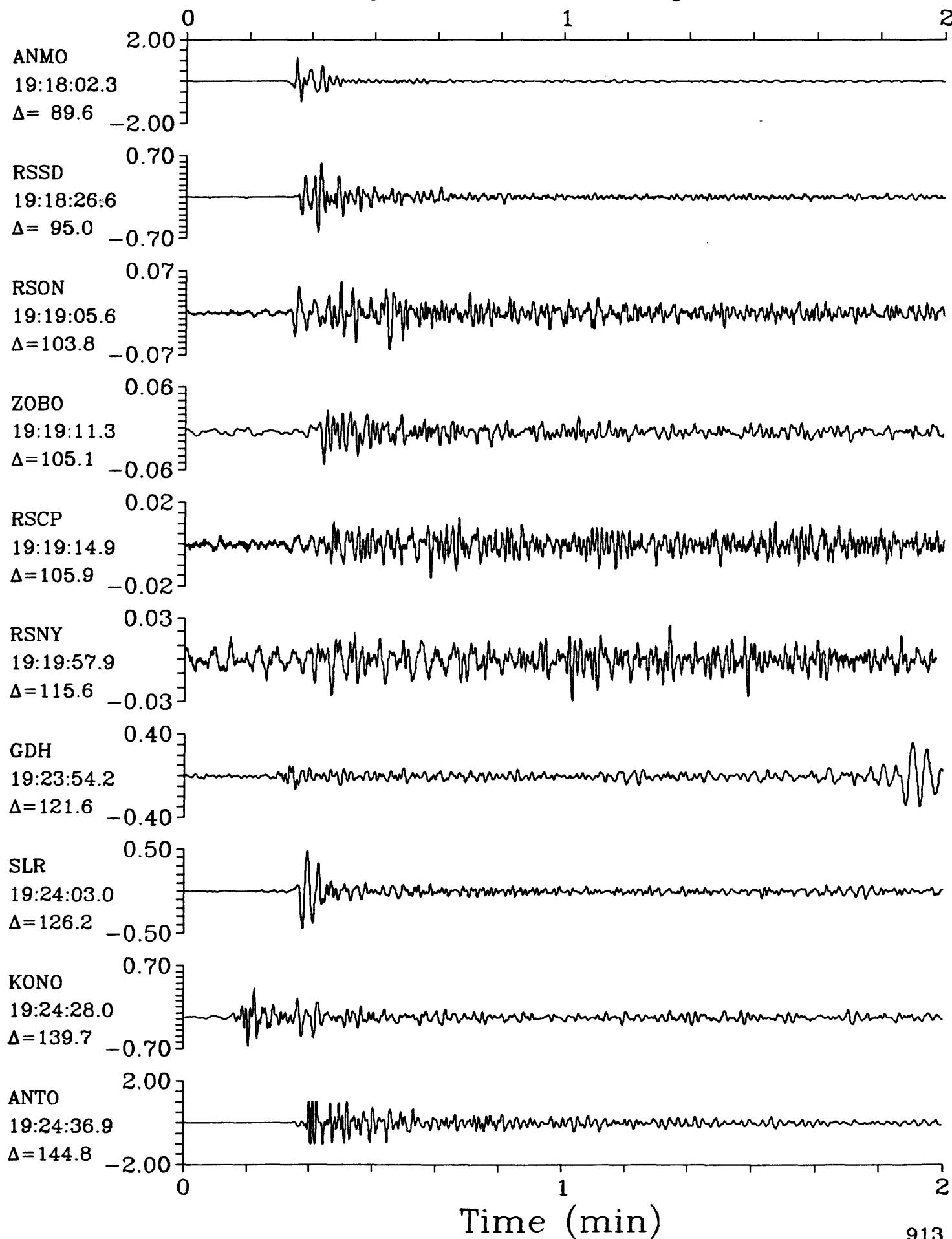
SPZ



SPZ

26 May 1986 19:06:17.50
South of Fiji Islands h=553.2 m_b=6.8

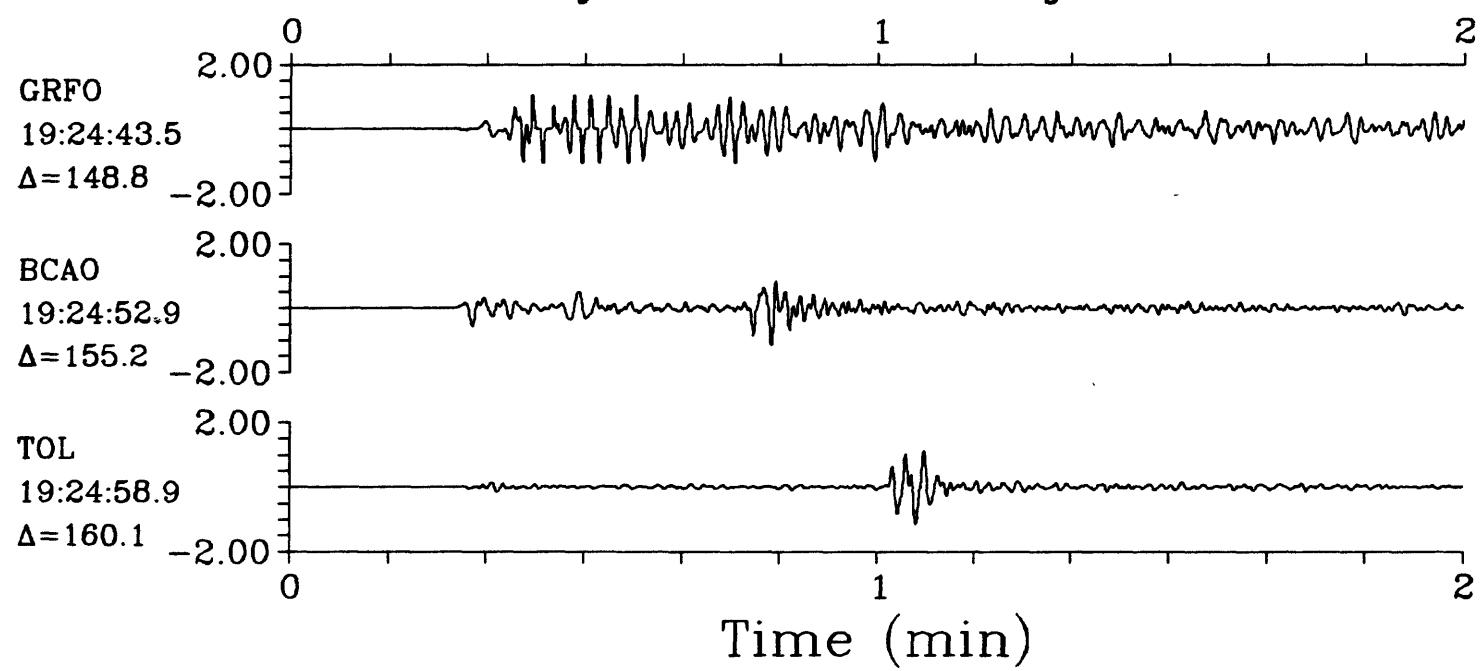
SPZ



SPZ

26 May 1986 19:06:17.50
South of Fiji Islands $h=553.2$ $m_b=6.8$

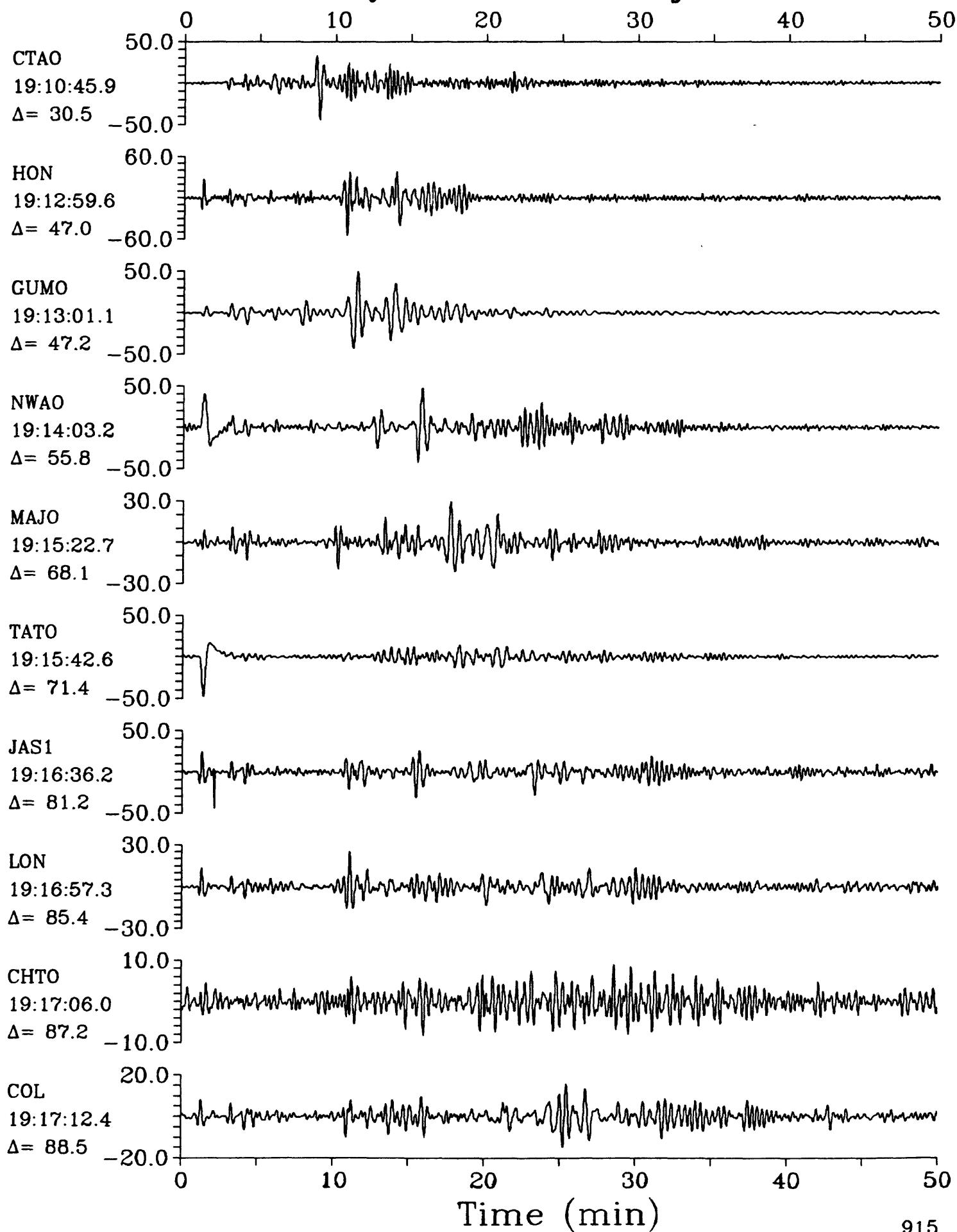
SPZ



LPZ

26 May 1986 19:06:17.50
South of Fiji Islands $h=553.2$ $m_b=6.8$

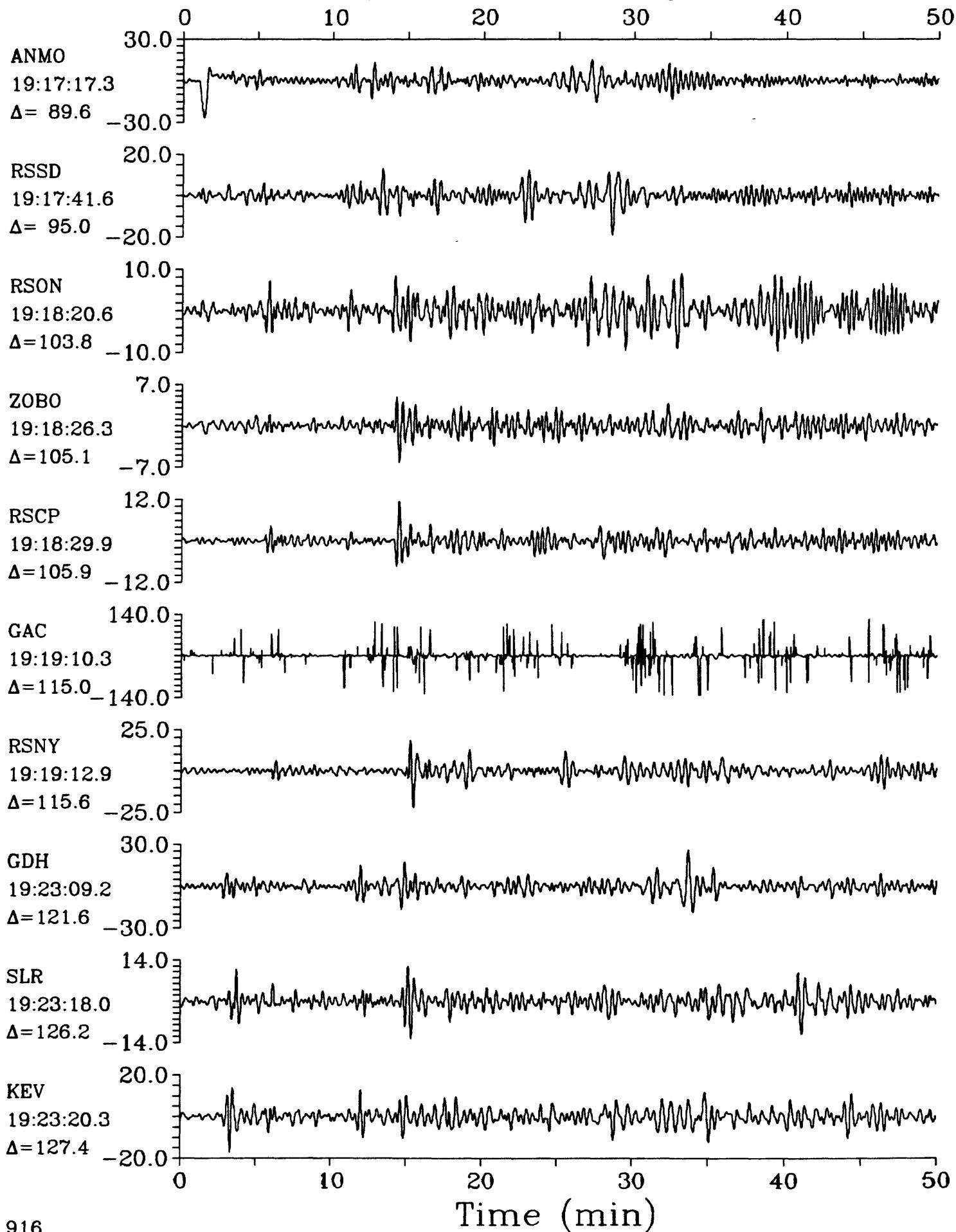
LPZ



LPZ

26 May 1986 19:06:17.50

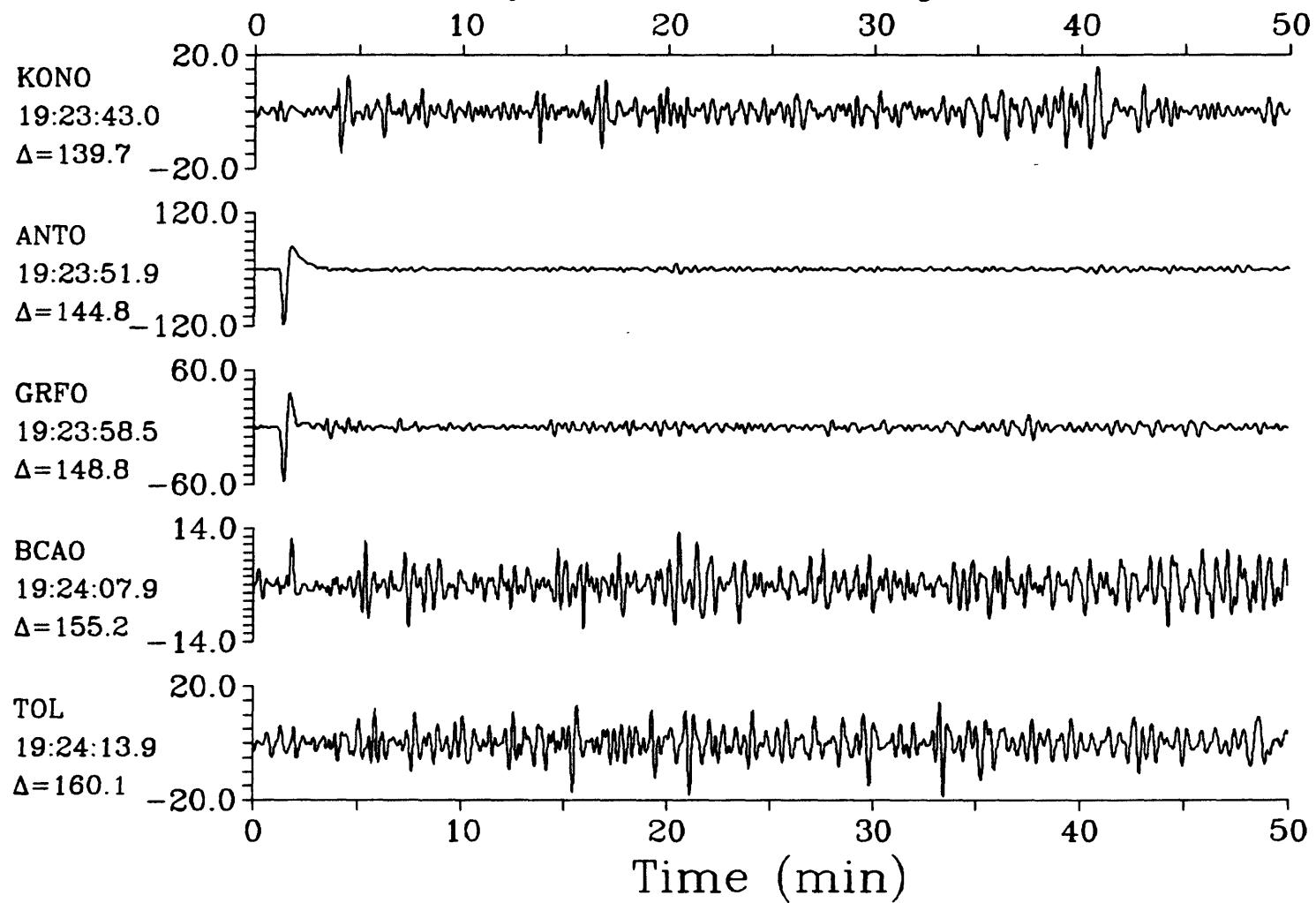
LPZ

South of Fiji Islands $h=553.2$ $m_b=6.8$ 

LPZ

26 May 1986 19:06:17.50
South of Fiji Islands $h=553.2$ $m_b=6.8$

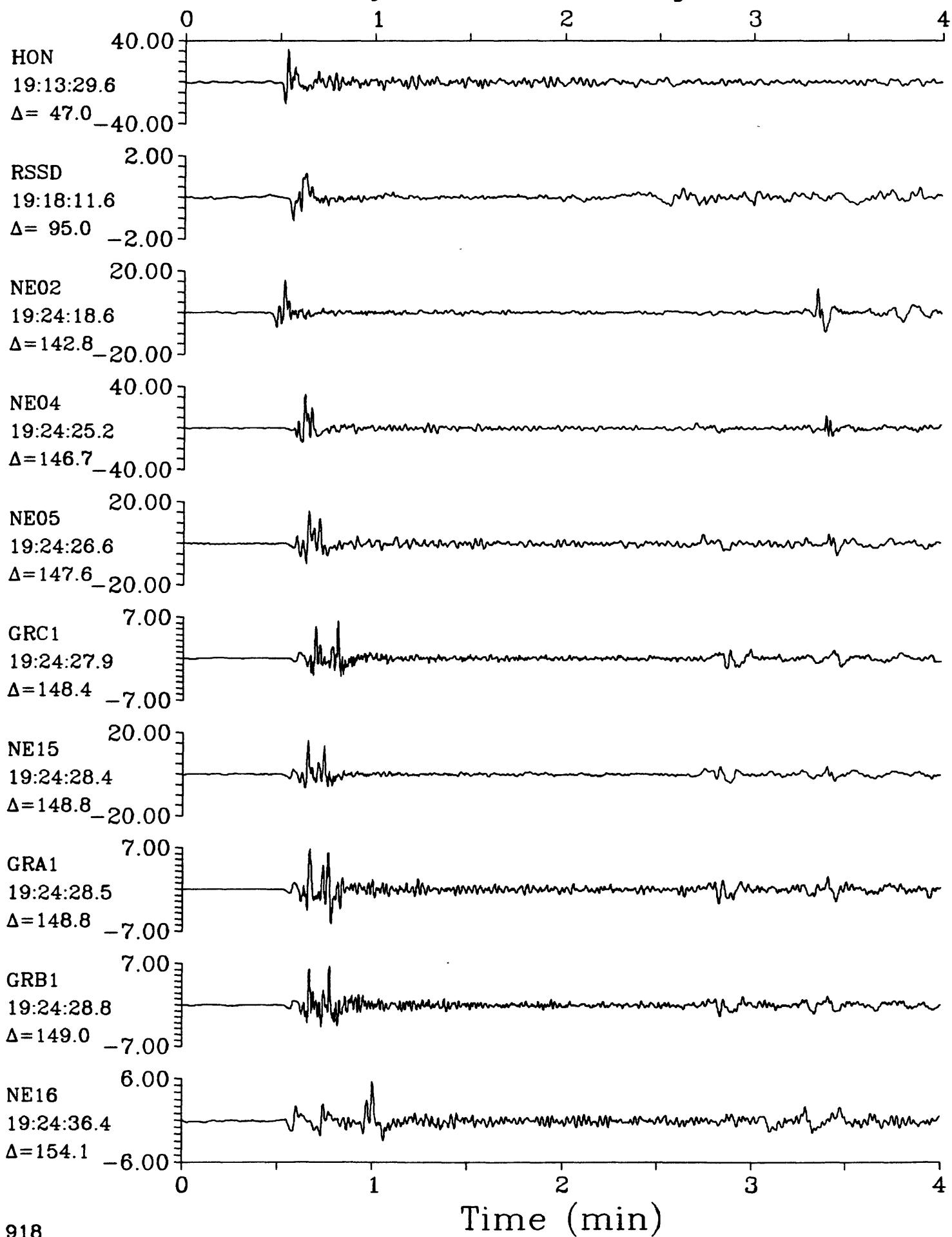
LPZ



IPZ

26 May 1986 19:06:17.50
South of Fiji Islands $h=553.2$ $m_b=6.8$

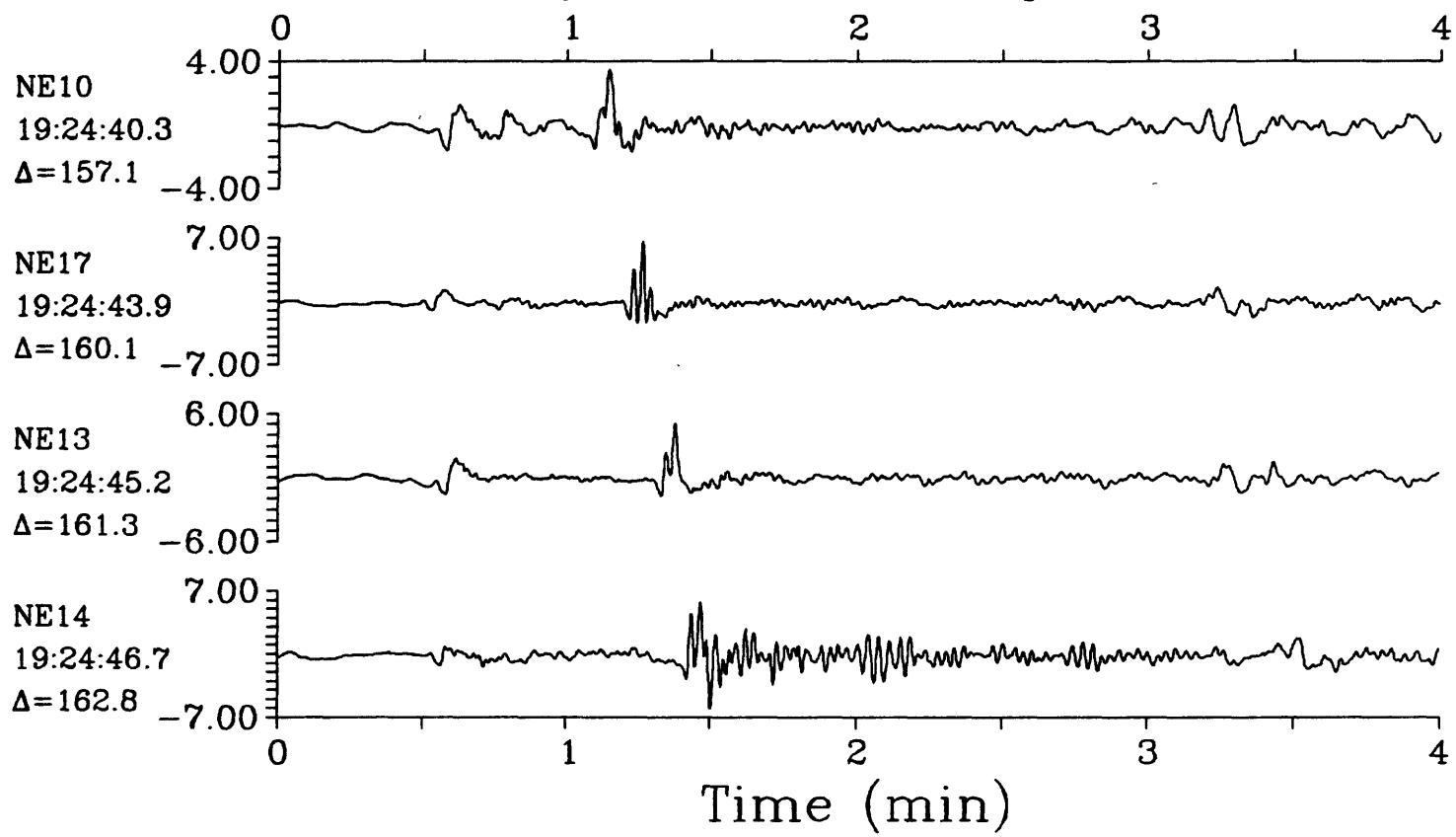
IPZ



IPZ

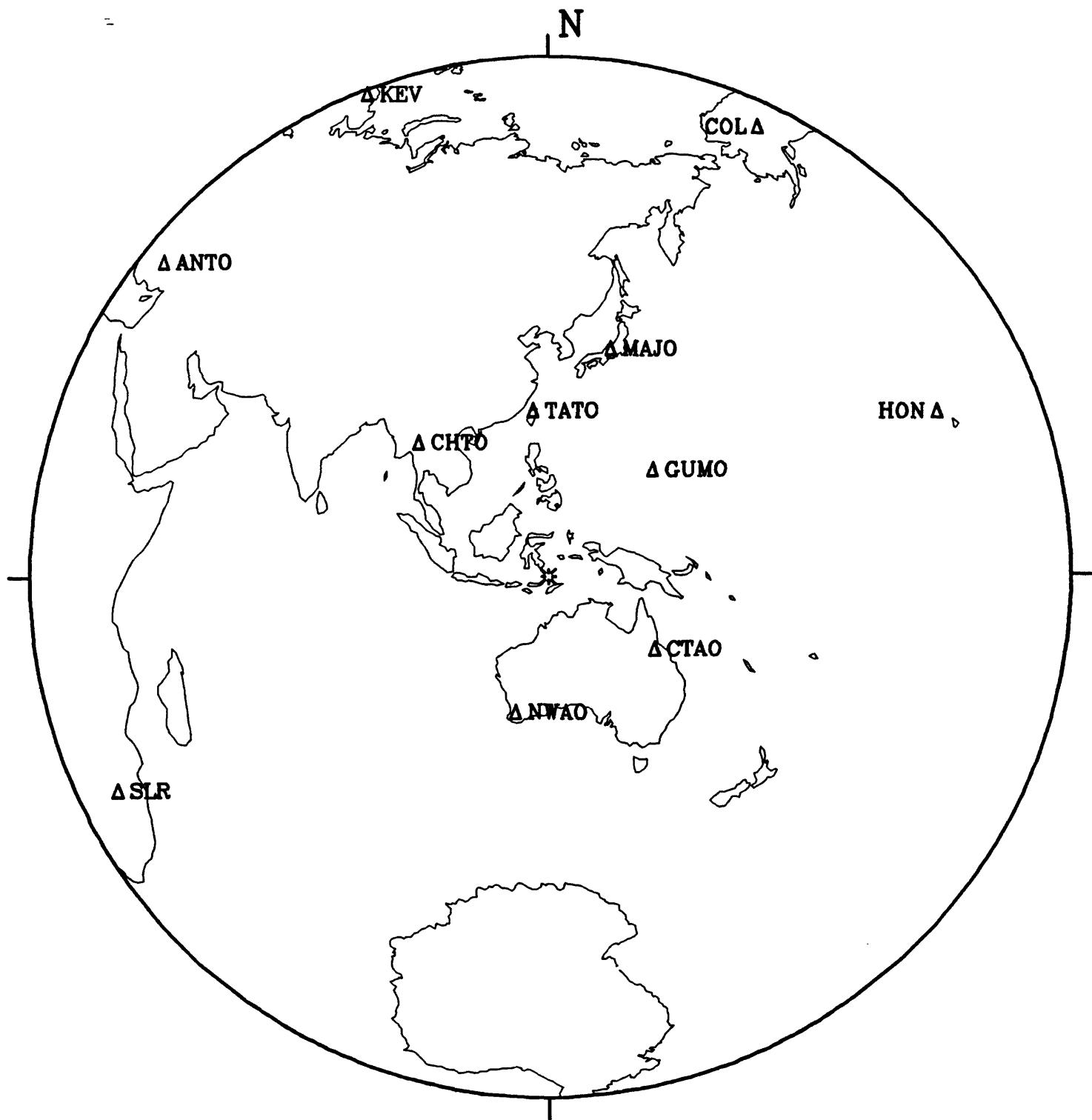
26 May 1986 19:06:17.50

IPZ

South of Fiji Islands $h=553.2$ $m_b=6.8$ 

27 May 1986 08:54:05.18

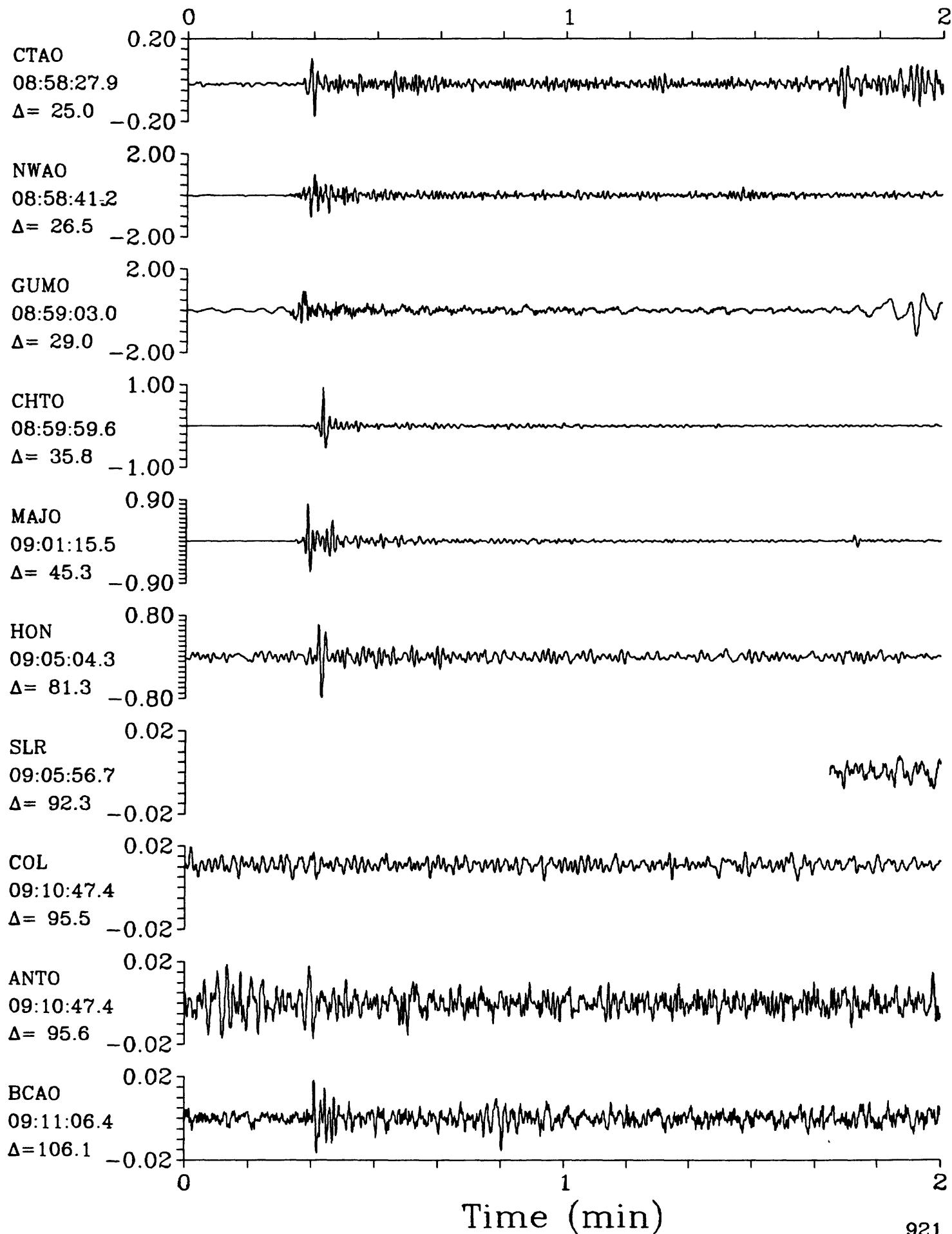
Banda Sea



SPZ

27 May 1986 08:54:05.18
Banda Sea $h=612.4$ $m_b=5.7$

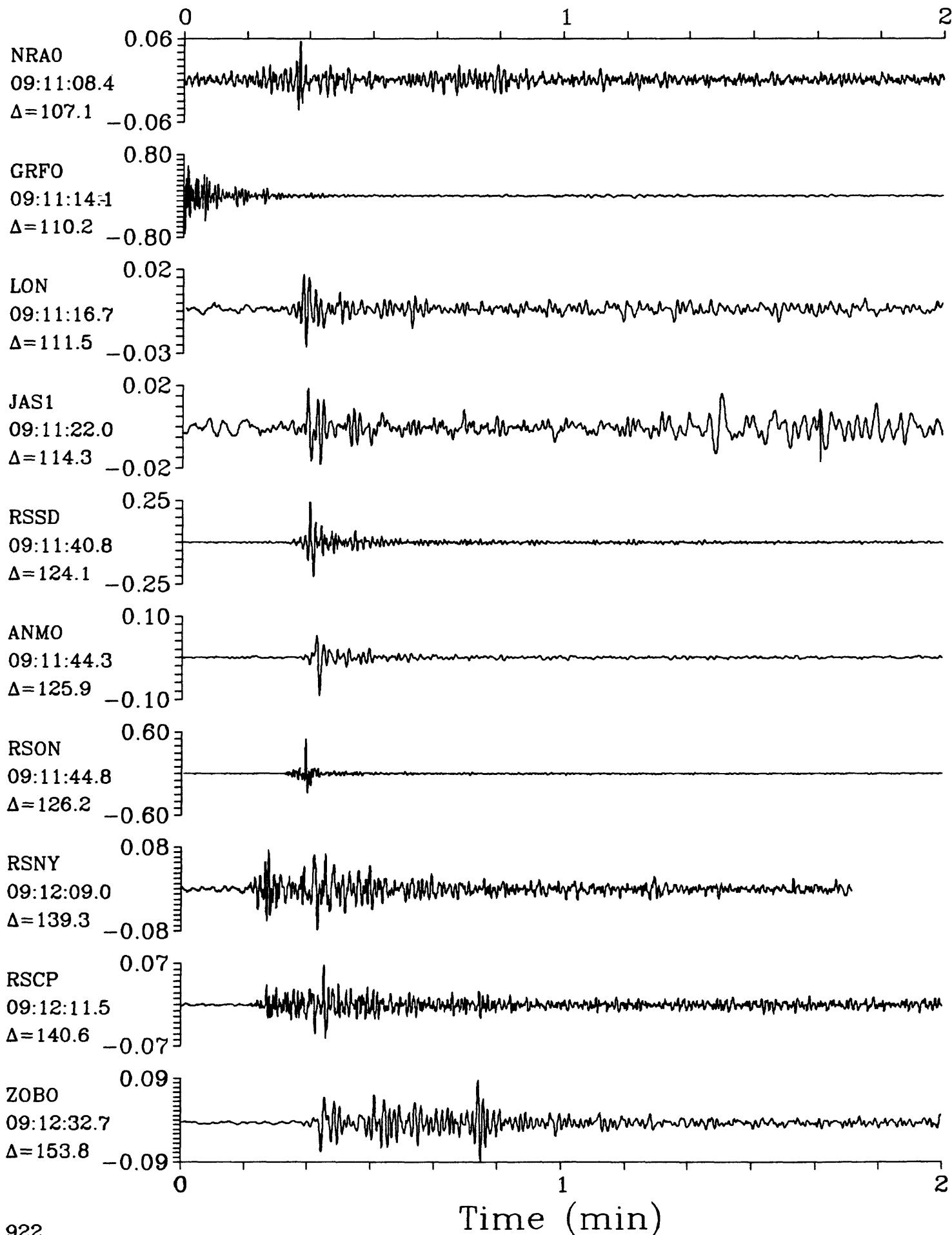
SPZ



SPZ

27 May 1986 08:54:05.18
Banda Sea h=612.4 m_b=5.7

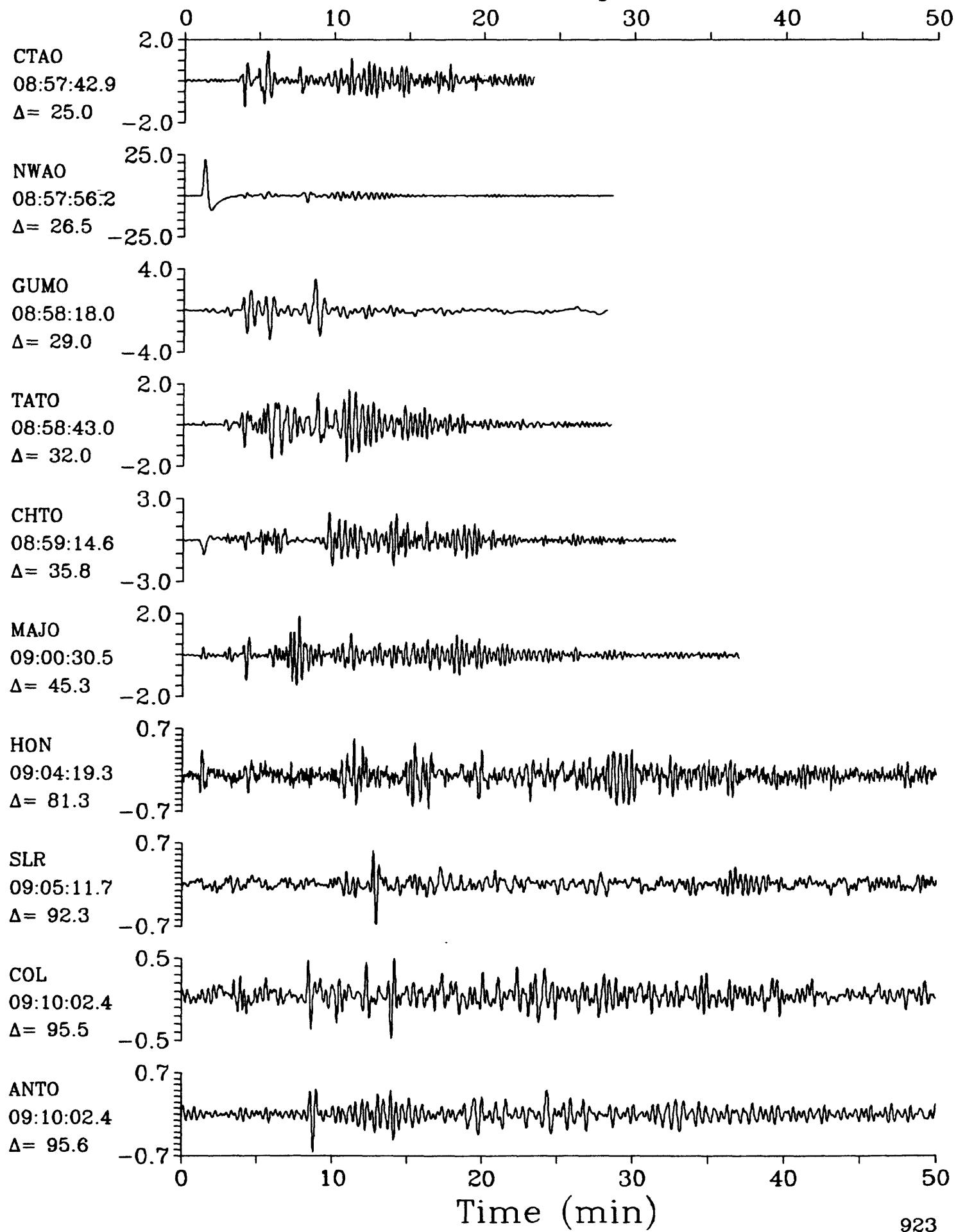
SPZ



LPZ

27 May 1986 08:54:05.18
Banda Sea $h=612.4$ $m_b=5.7$

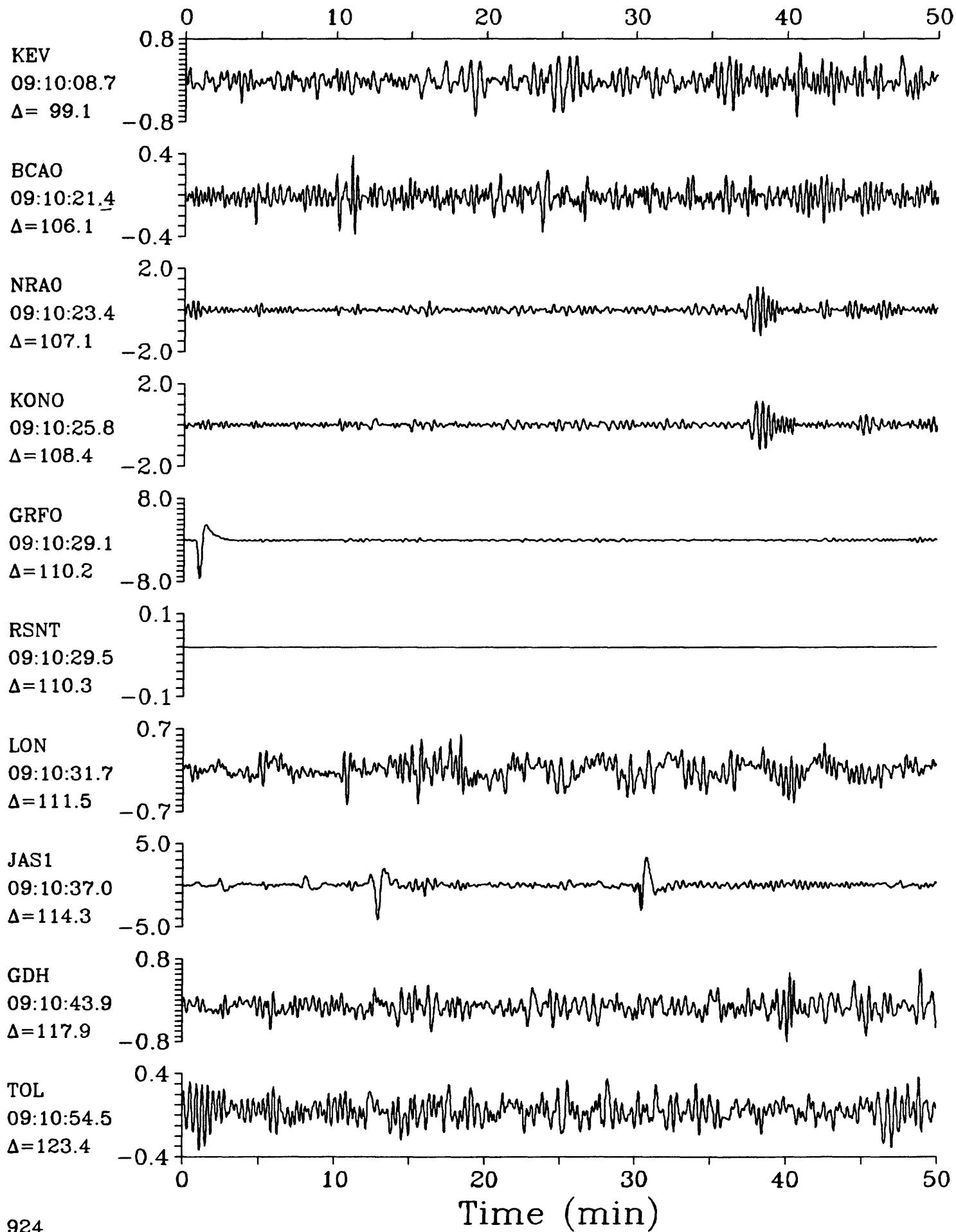
LPZ



LPZ

27 May 1986 08:54:05.18
Banda Sea $h=612.4$ $m_b=5.7$

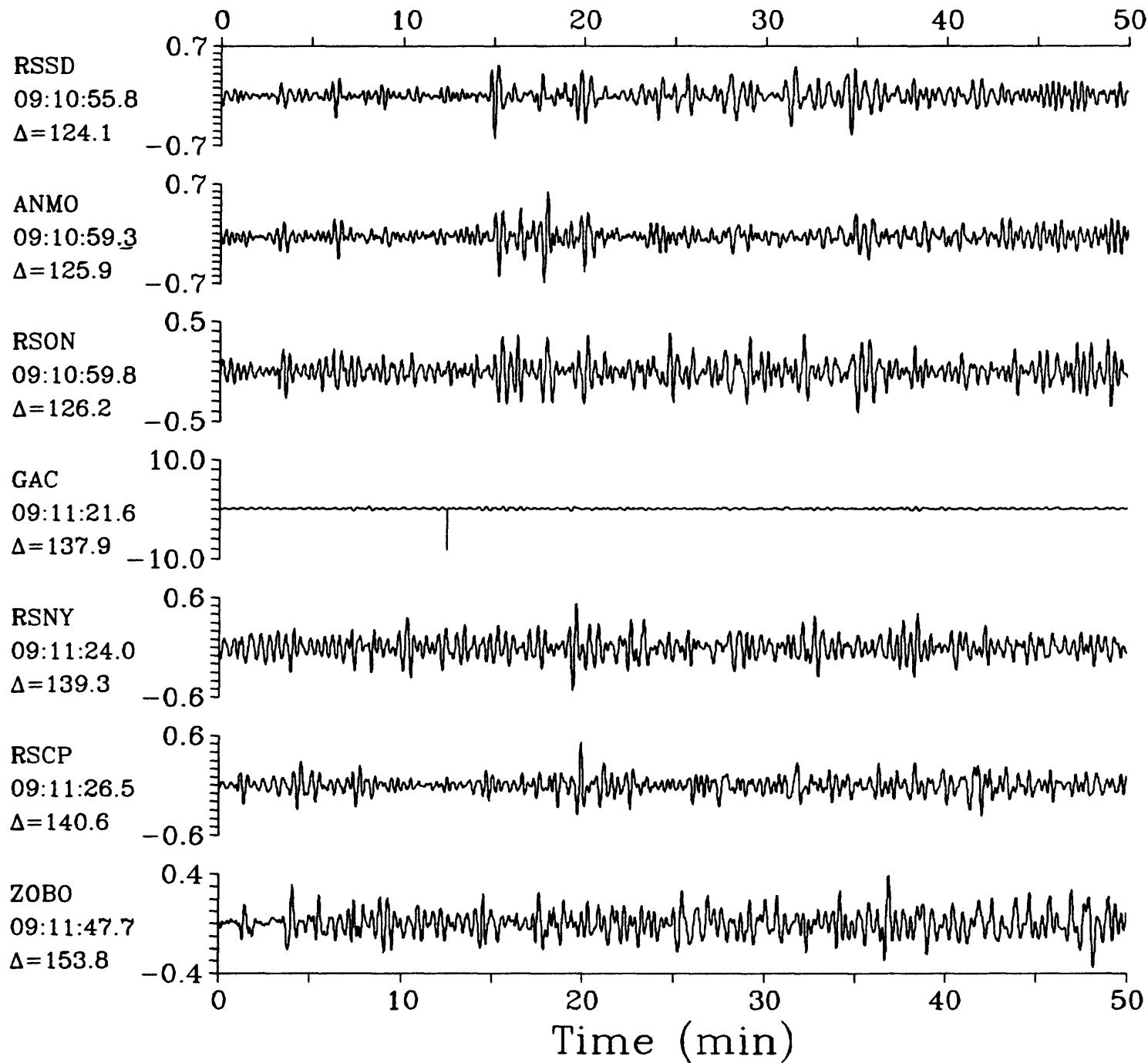
LPZ



LPZ

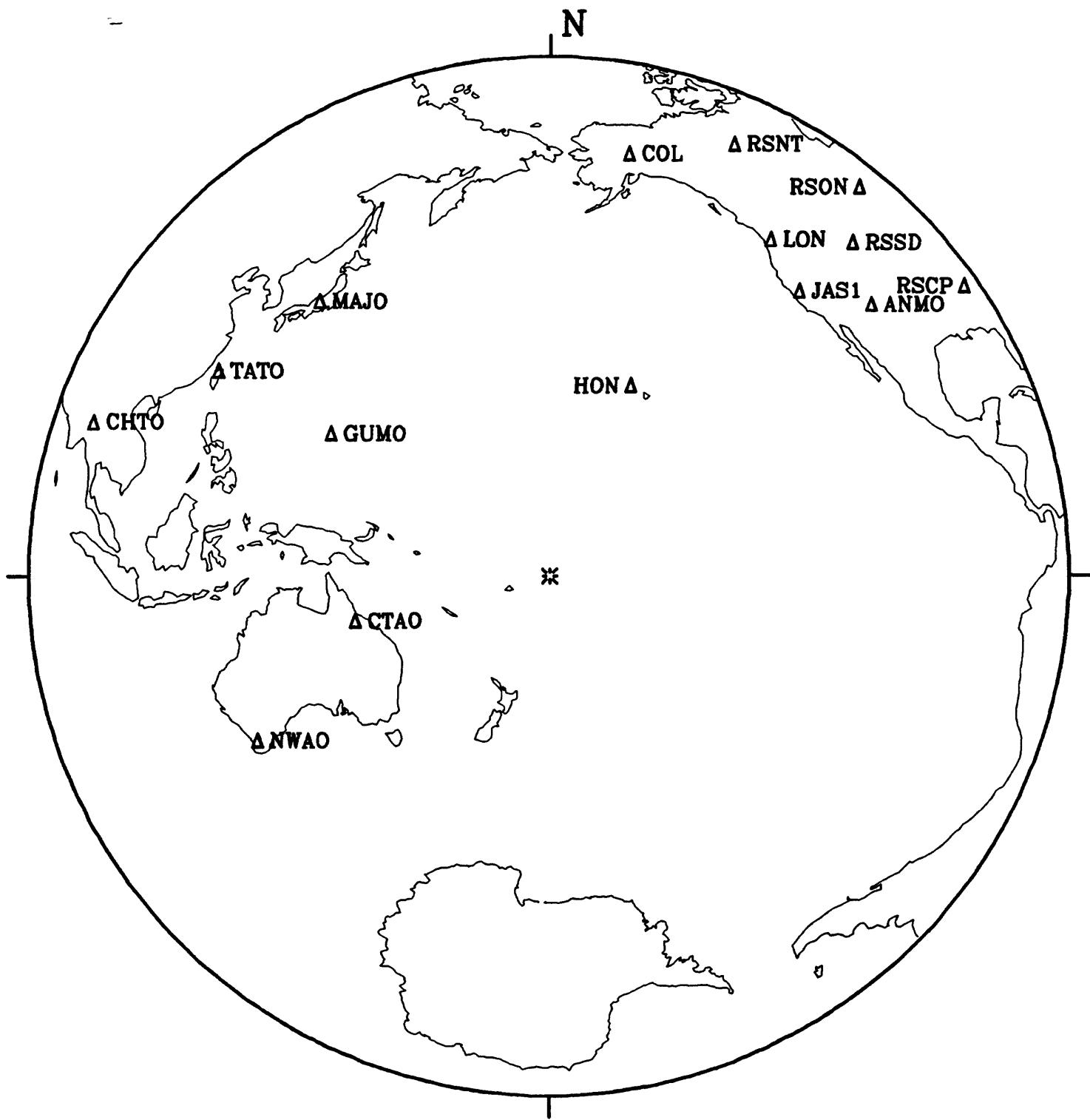
27 May 1986 08:54:05.18
Banda Sea $h=612.4$ $m_b=5.7$

LPZ



27 May 1986 22:03:09.93

Tonga Islands

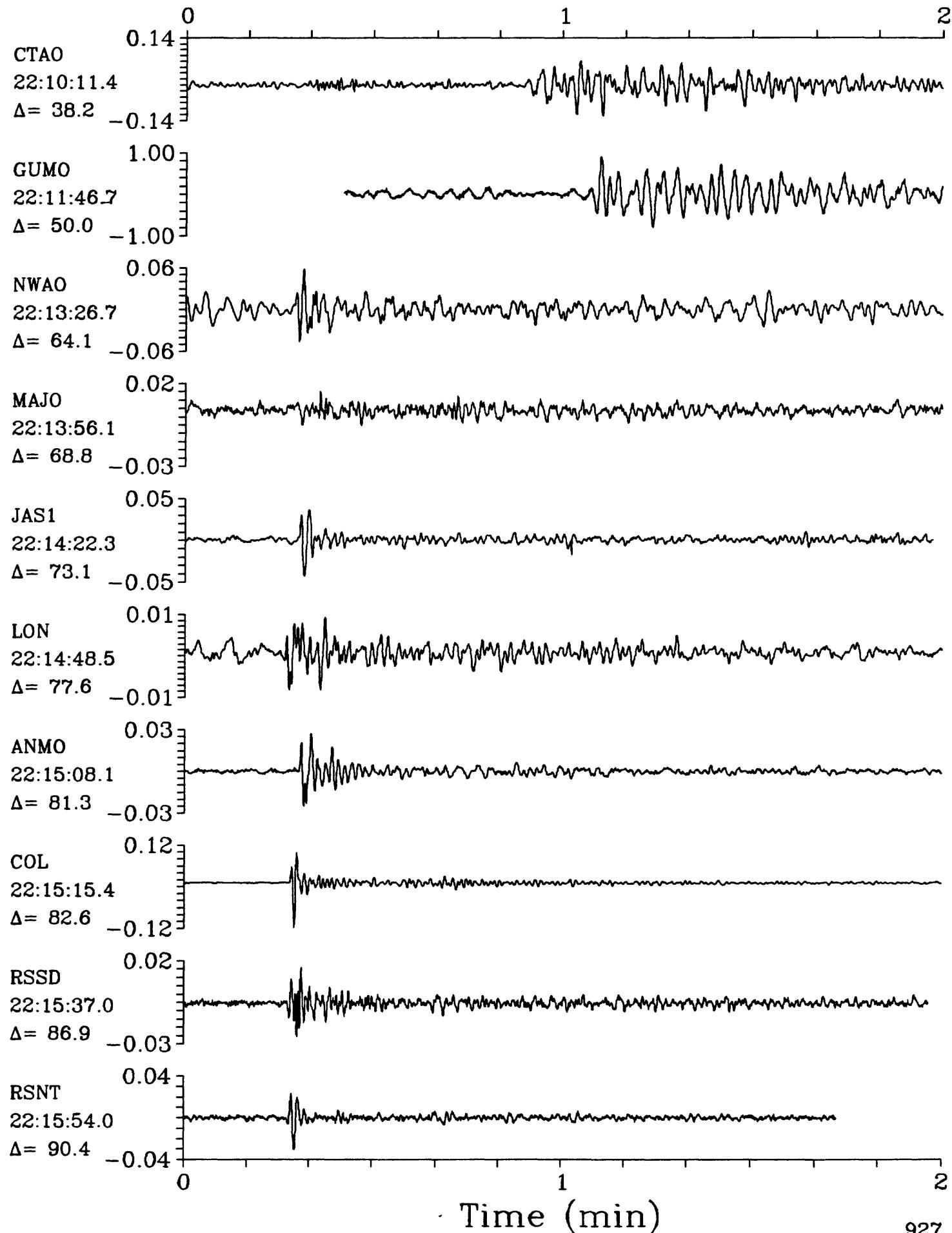


SPZ

27 May 1986 22:03:09.93

SPZ

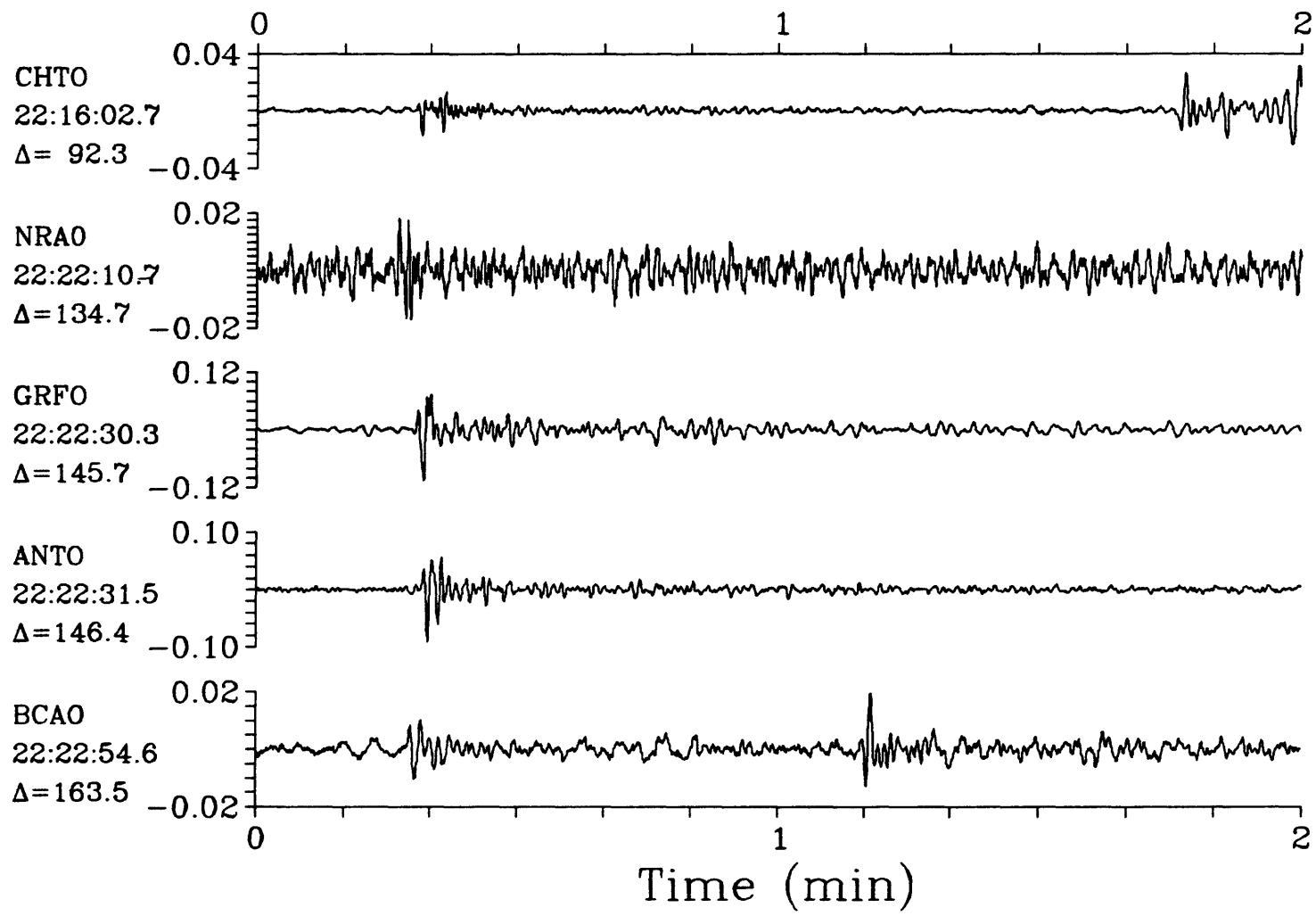
Tonga Islands $h=33.0$ $m_b=5.5$ $M_{Sz}=5.0$



SPZ

27 May 1986 22:03:09.93

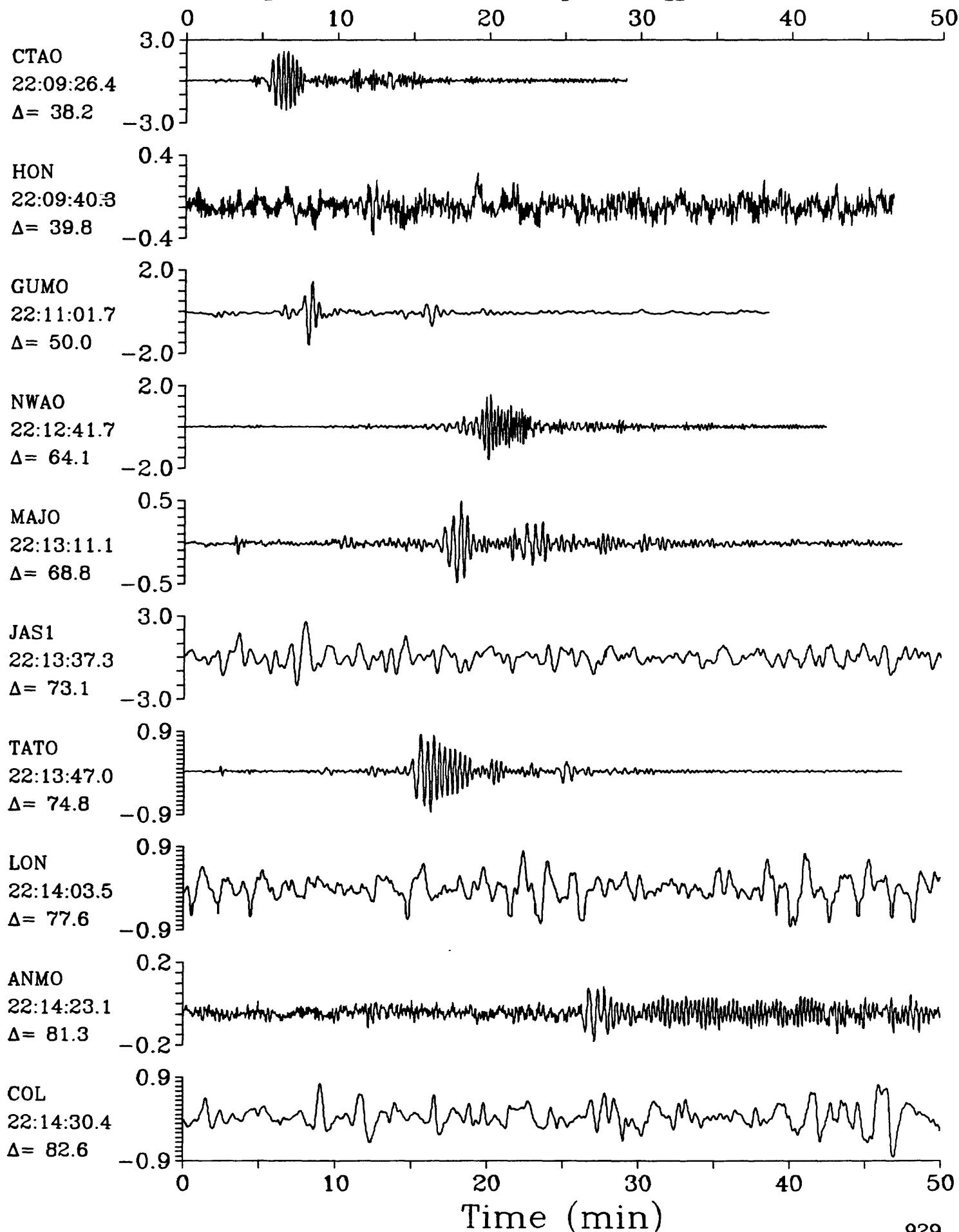
SPZ

Tonga Islands $h=33.0$ $m_b=5.5$ $M_{sz}=5.0$ 

LPZ

27 May 1986 22:03:09.93
Tonga Islands $h=33.0$ $m_b=5.5$ $M_{sz}=5.0$

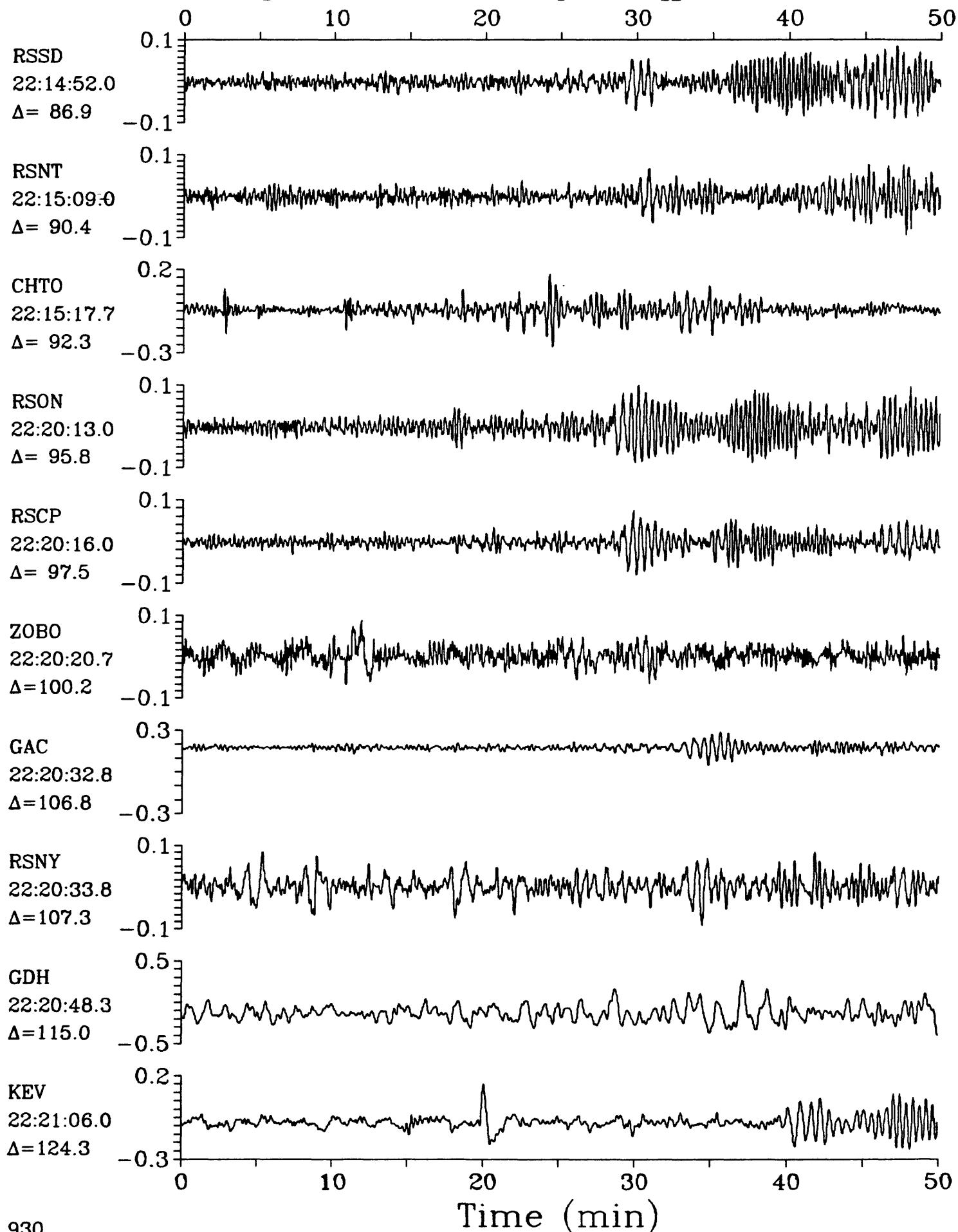
LPZ



LPZ

27 May 1986 22:03:09.93

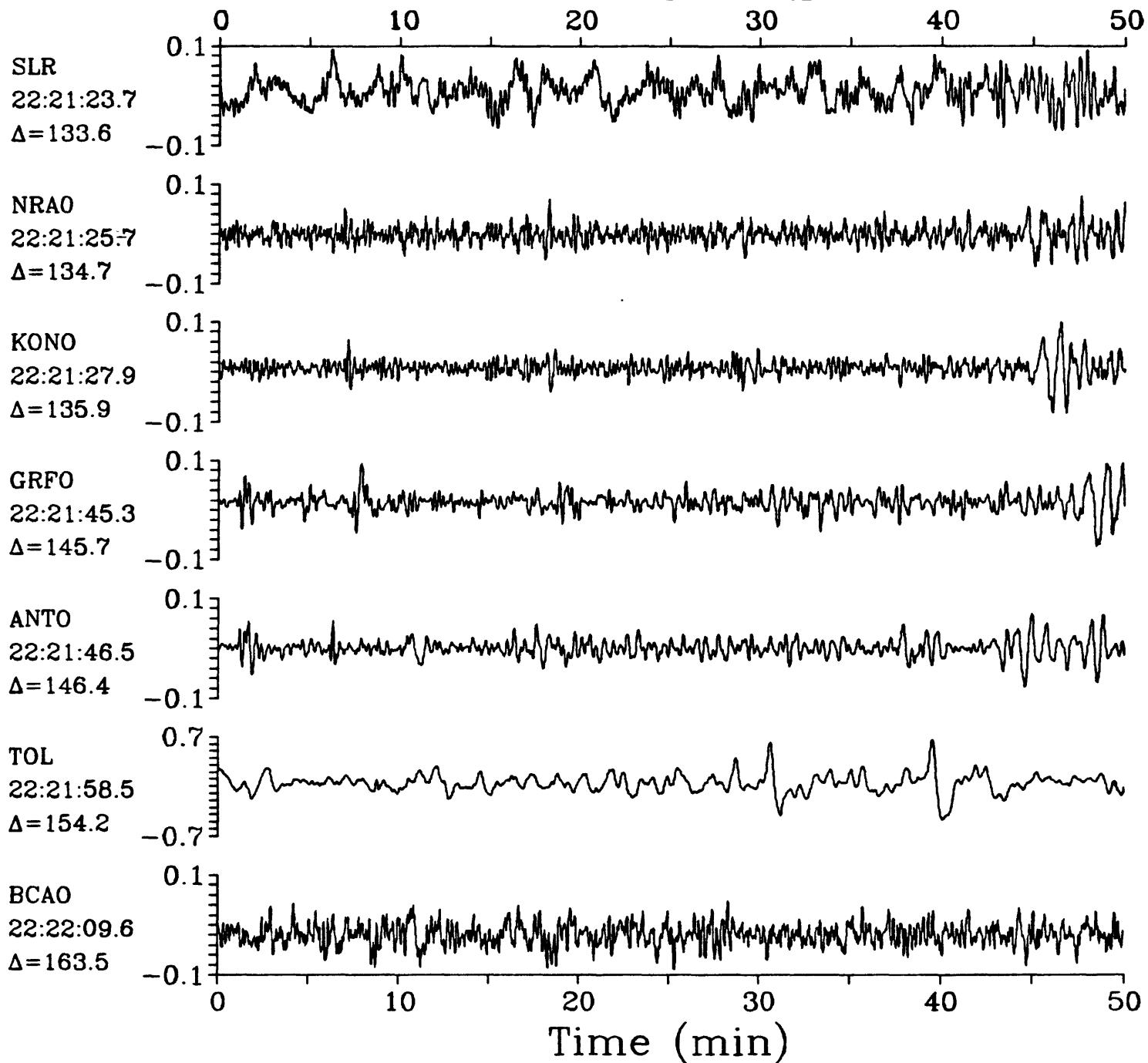
LPZ

Tonga Islands $h=33.0$ $m_b=5.5$ $M_{sz}=5.0$ 

LPZ

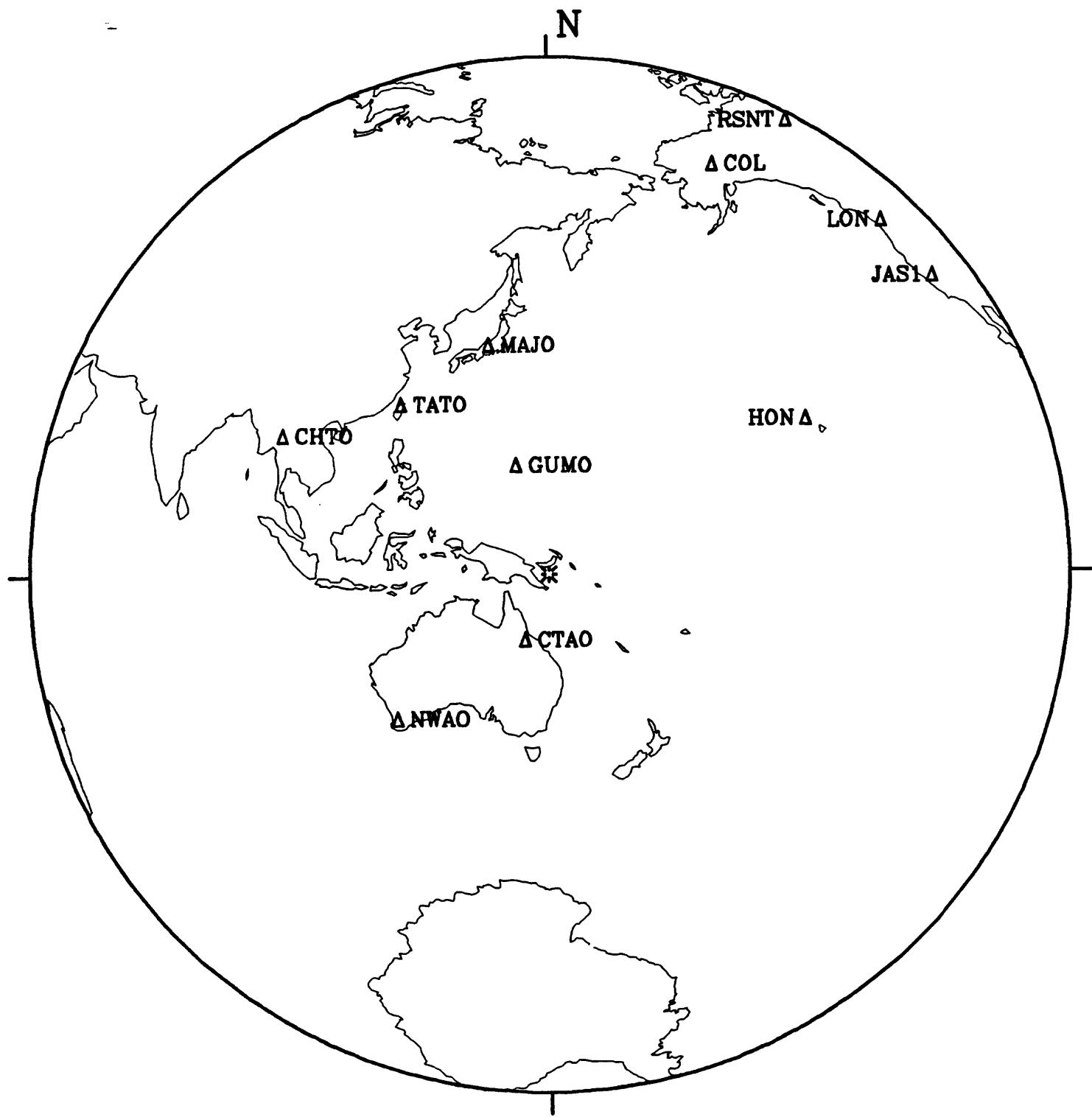
27 May 1986 22:03:09.93

LPZ

Tonga Islands $h=33.0$ $m_b=5.5$ $M_{sz}=5.0$ 

27 May 1986 22:07:59.29

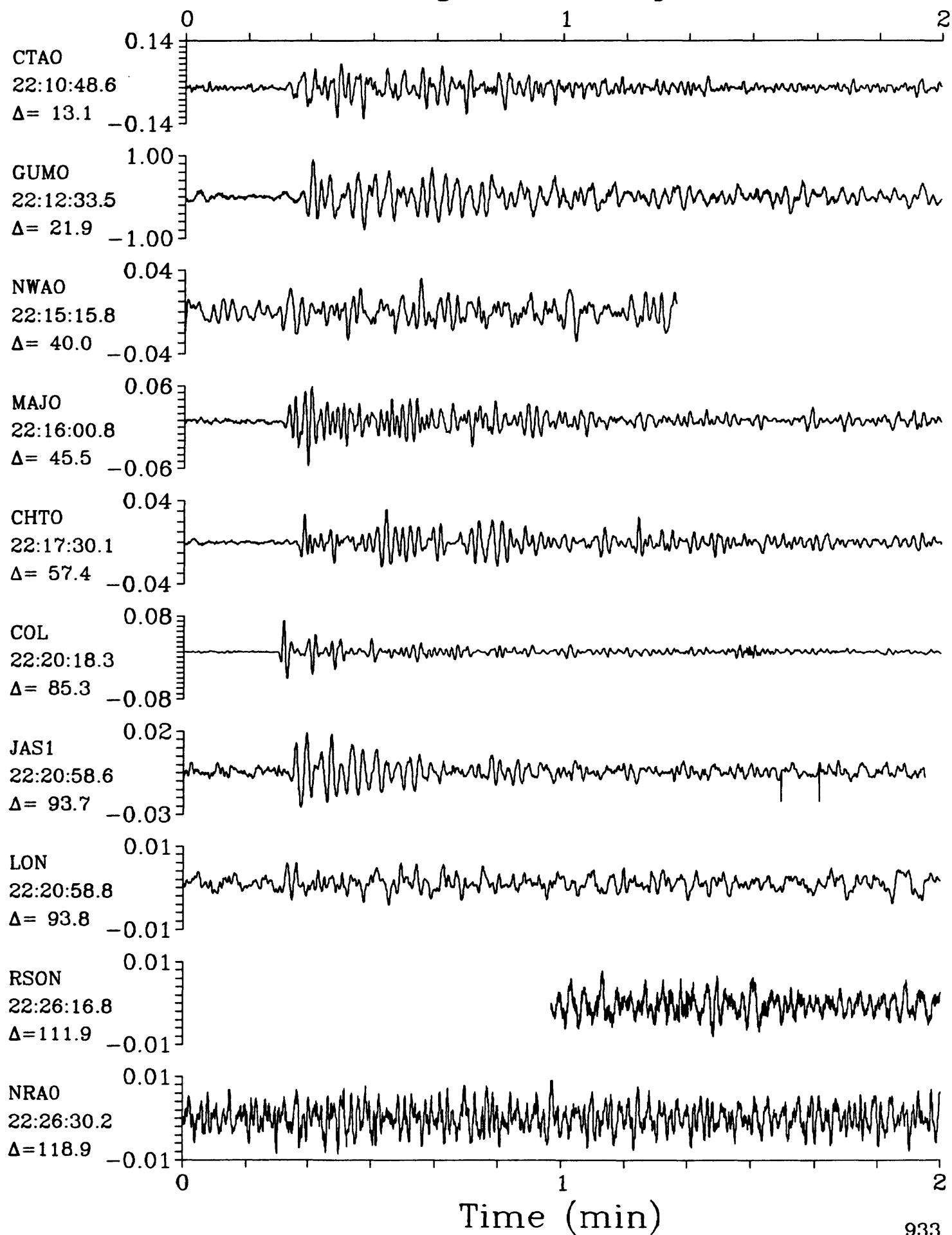
New Britain Region



SPZ

27 May 1986 22:07:59.29
New Britain Region h=33.0 m_b=5.6

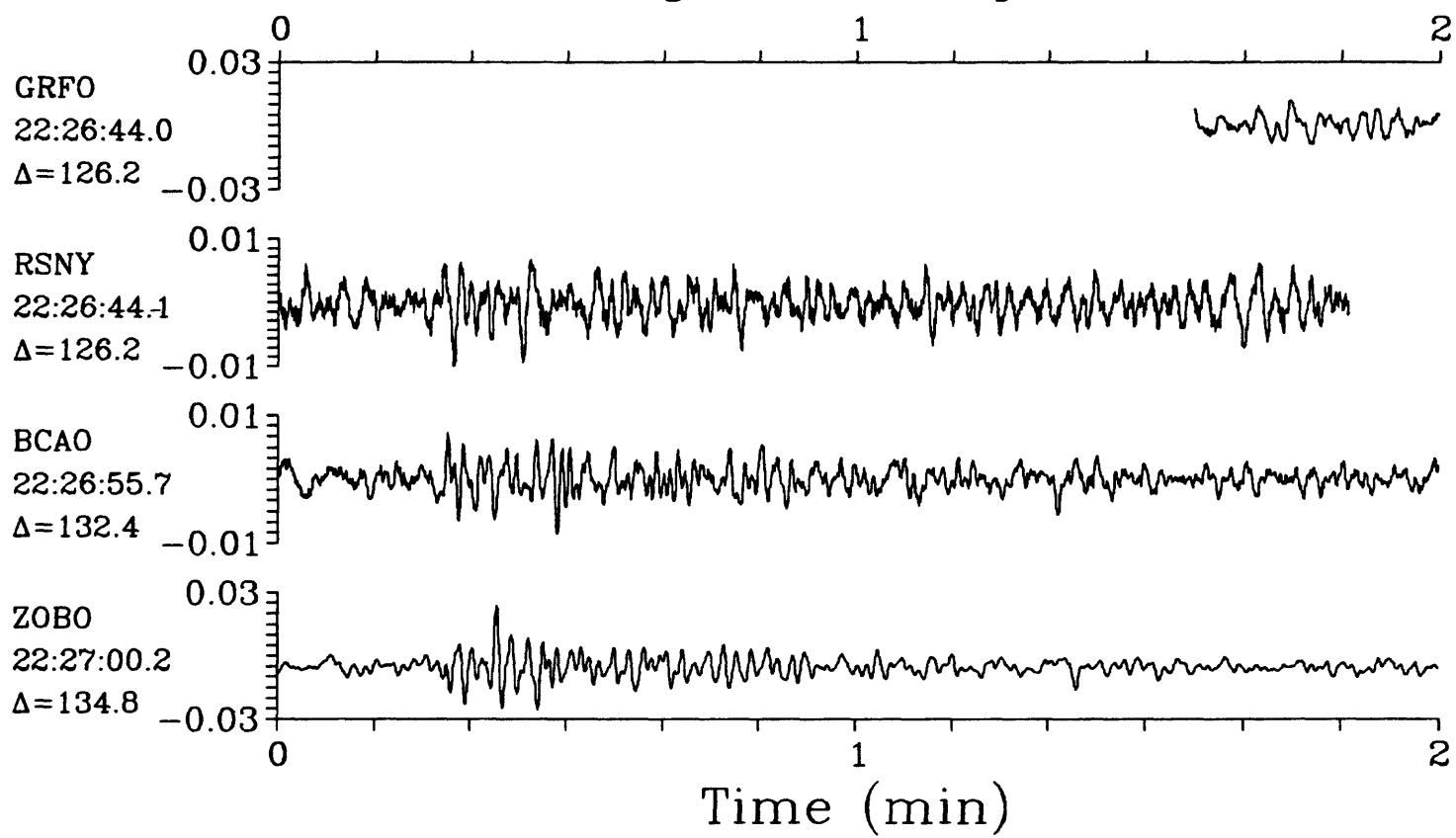
SPZ



SPZ

27 May 1986 22:07:59.29
New Britain Region $h=33.0$ $m_b=5.6$

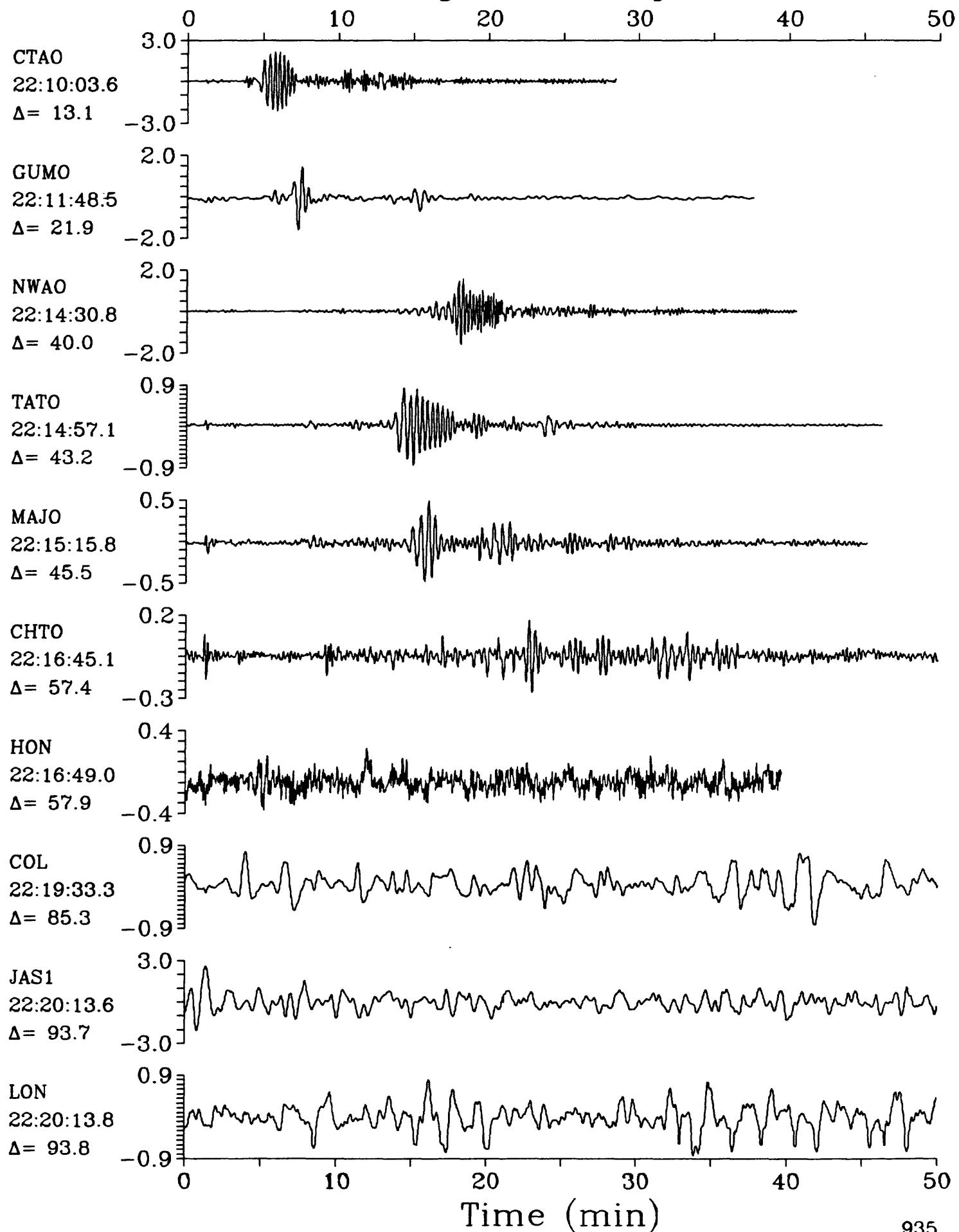
SPZ



LPZ

27 May 1986 22:07:59.29

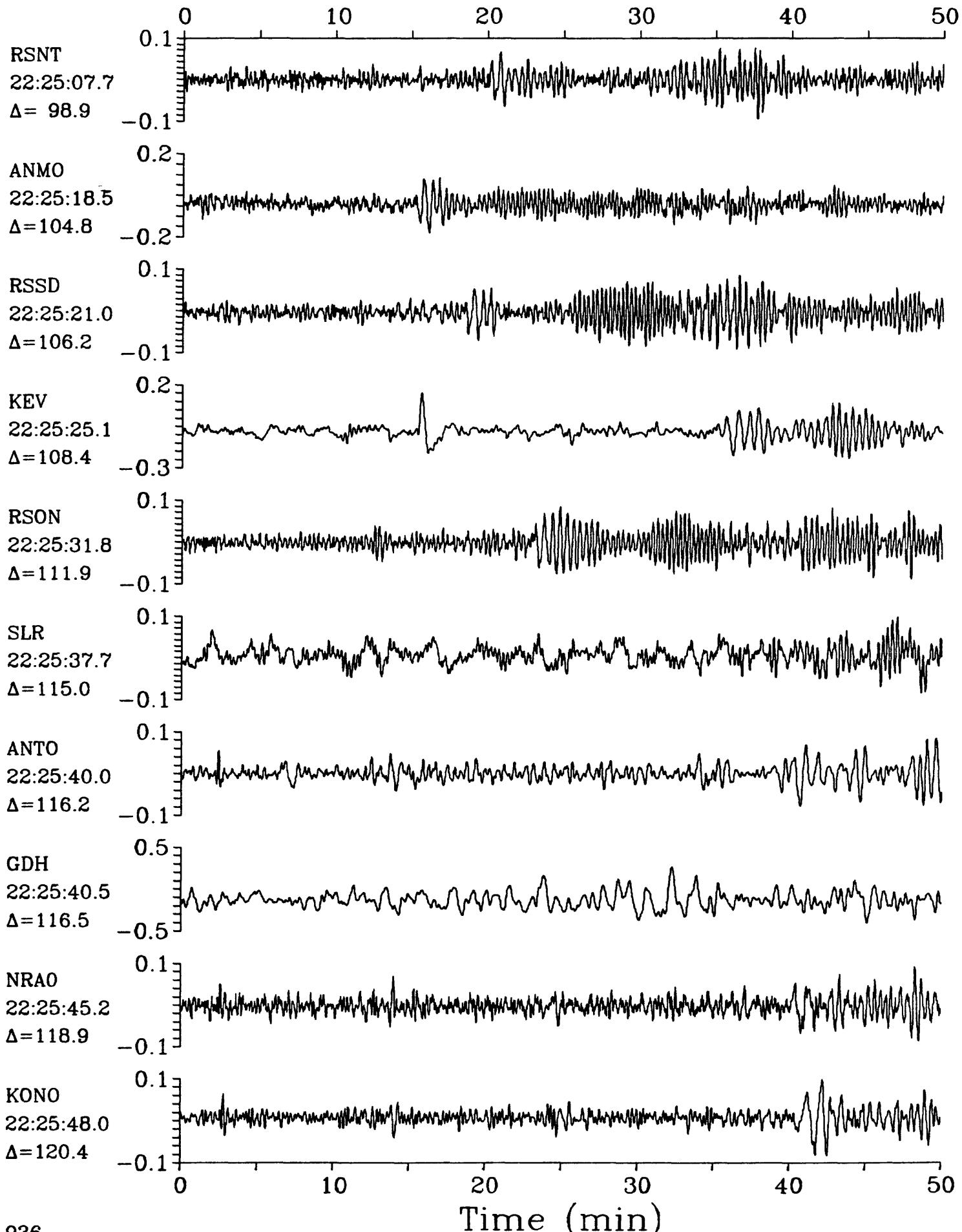
LPZ

New Britain Region $h=33.0$ $m_b=5.6$ 

LPZ

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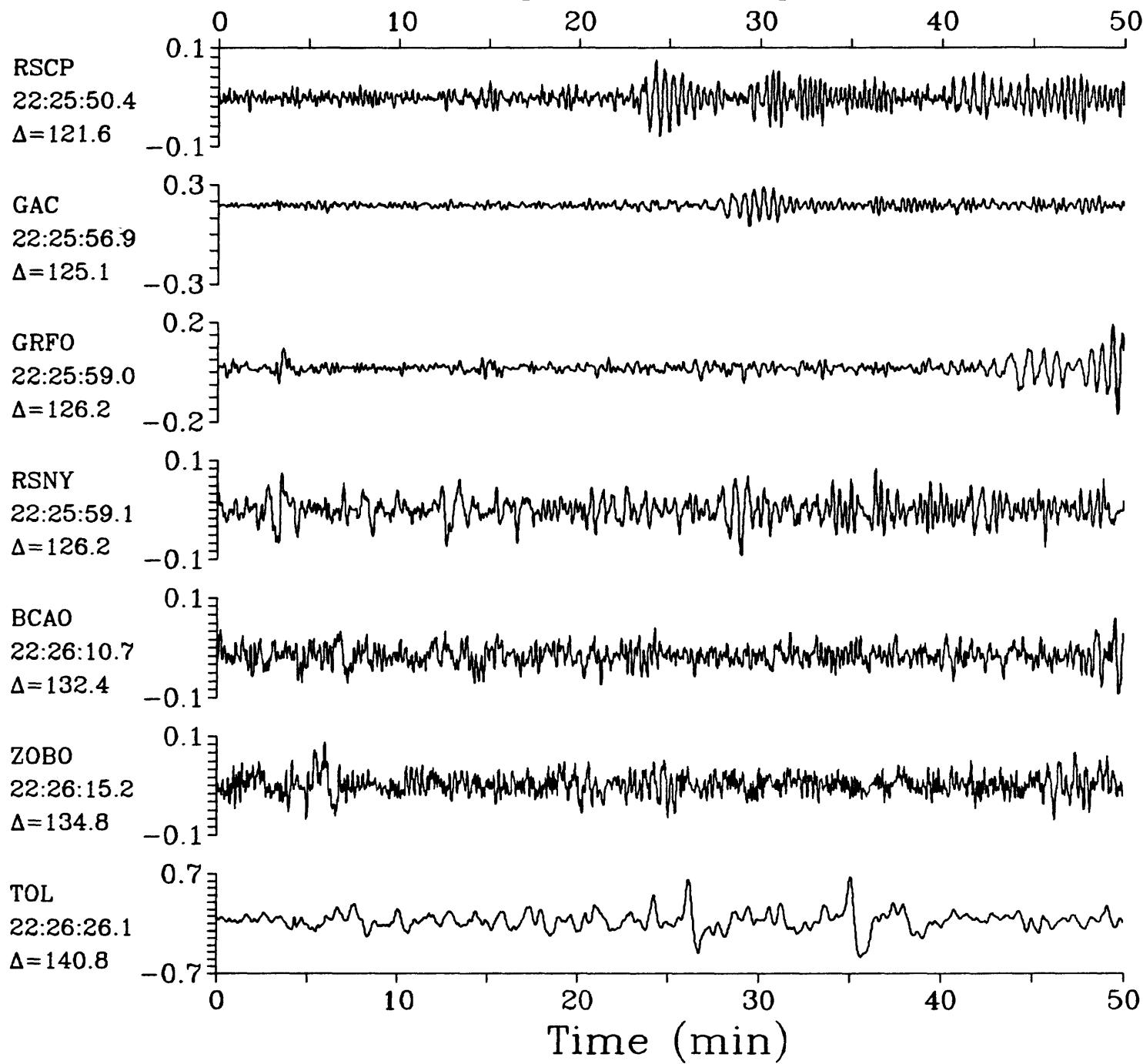
LPZ

New Britain Region $h=33.0$ $m_b=5.6$ 

LPZ

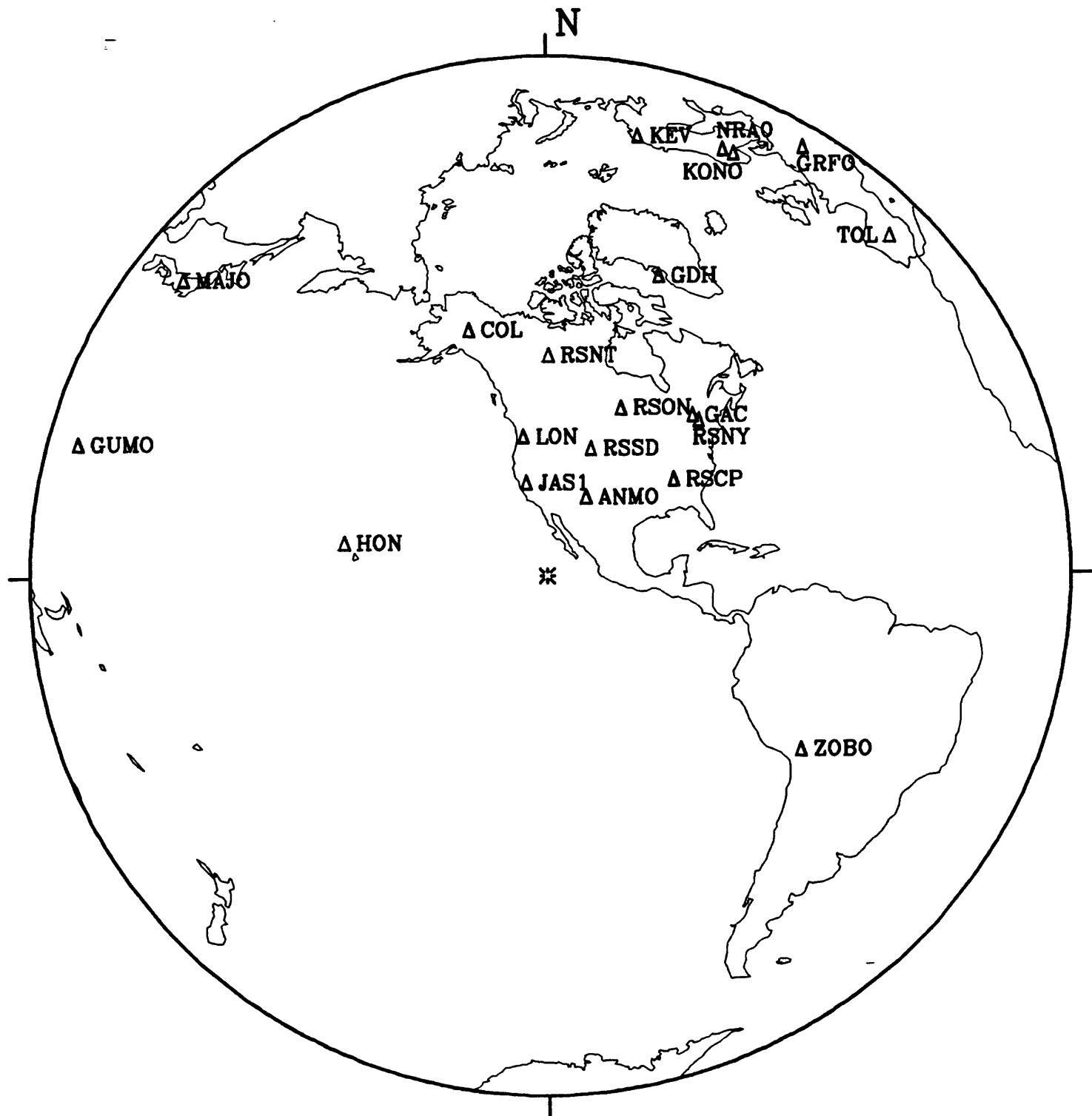
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LPZ

New Britain Region $h=33.0$ $m_b=5.6$ 

28 May 1986 13:33:44.15

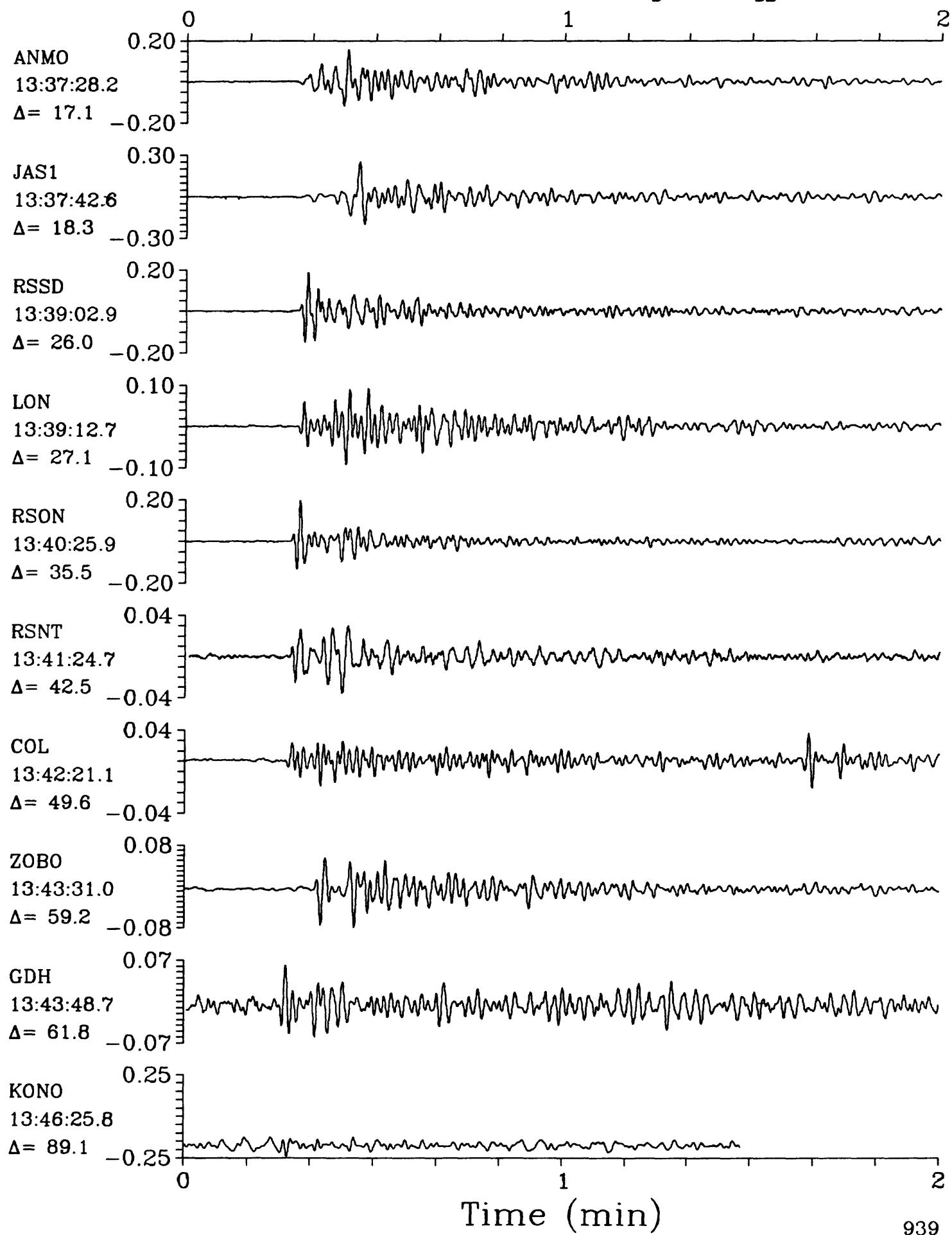
East Central Pacific Ocean



SPZ

28 May 1986 13:33:44.15

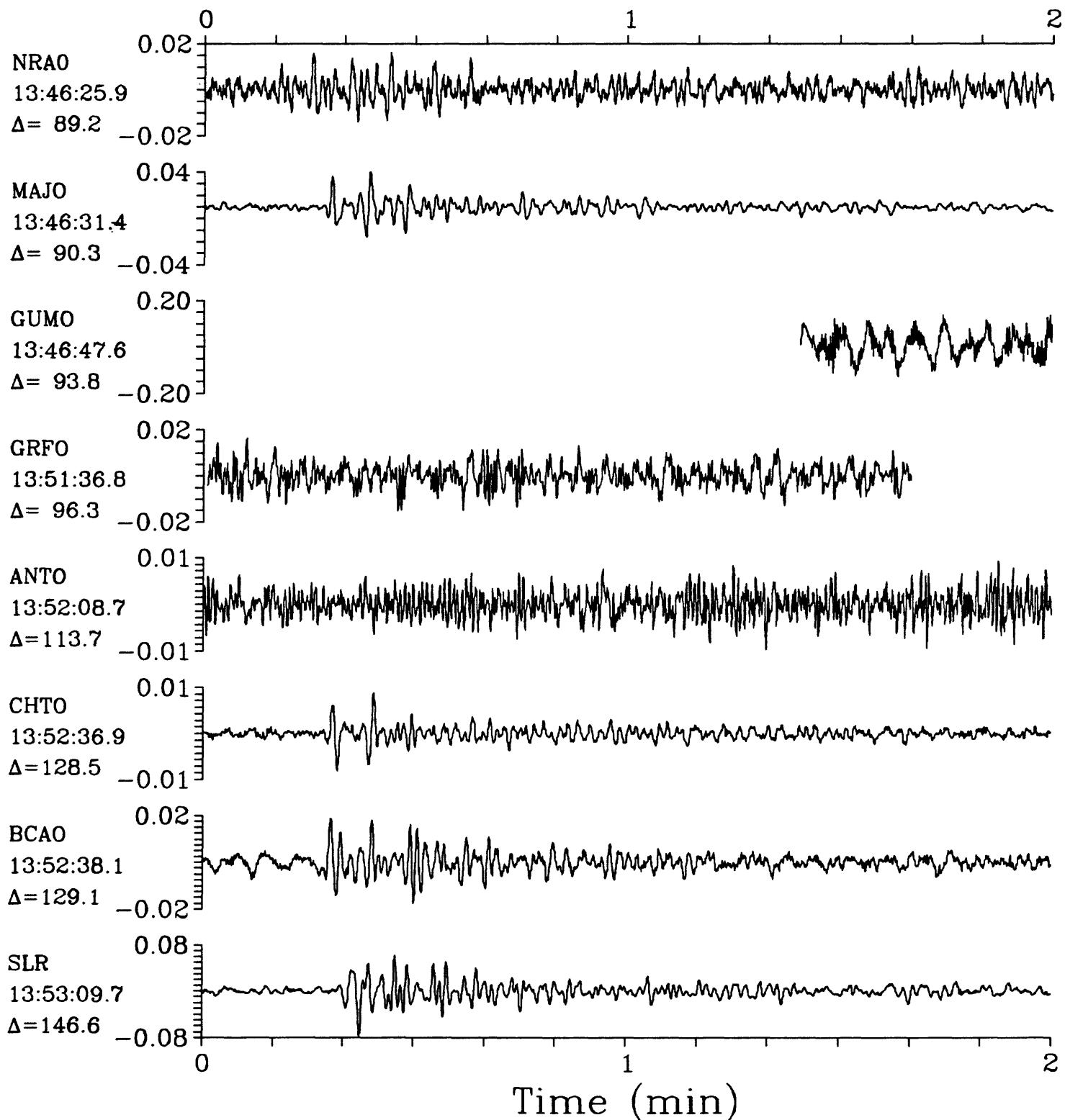
SPZ

East Central Pacific Ocean $h=10.0$ $m_b=5.5$ $M_{SZ}=5.1$ 

SPZ

28 May 1986 13:33:44.15

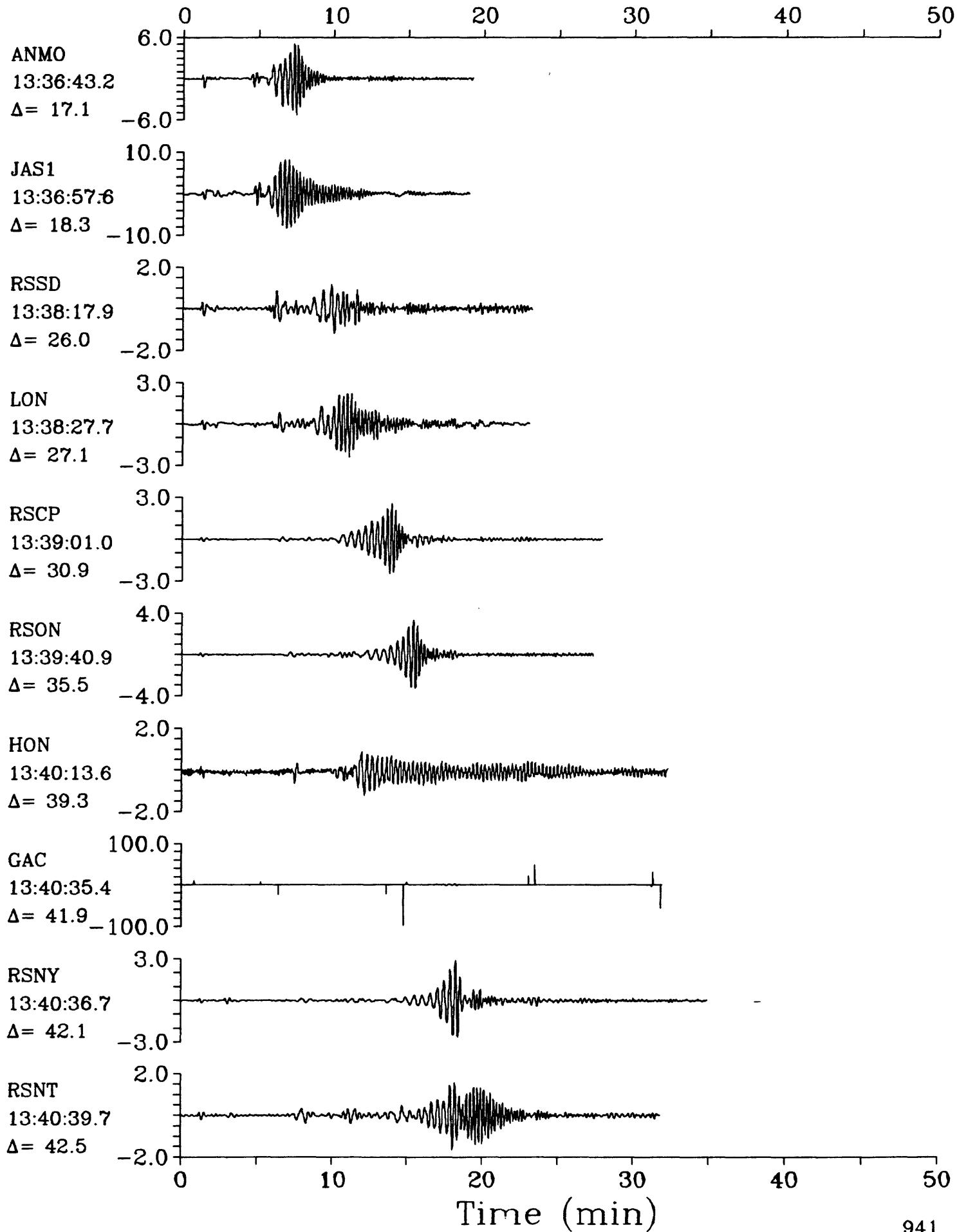
SPZ

East Central Pacific Ocean $h=10.0$ $m_b=5.5$ $M_{sz}=5.1$ 

LPZ

28 May 1986 13:33:44.15

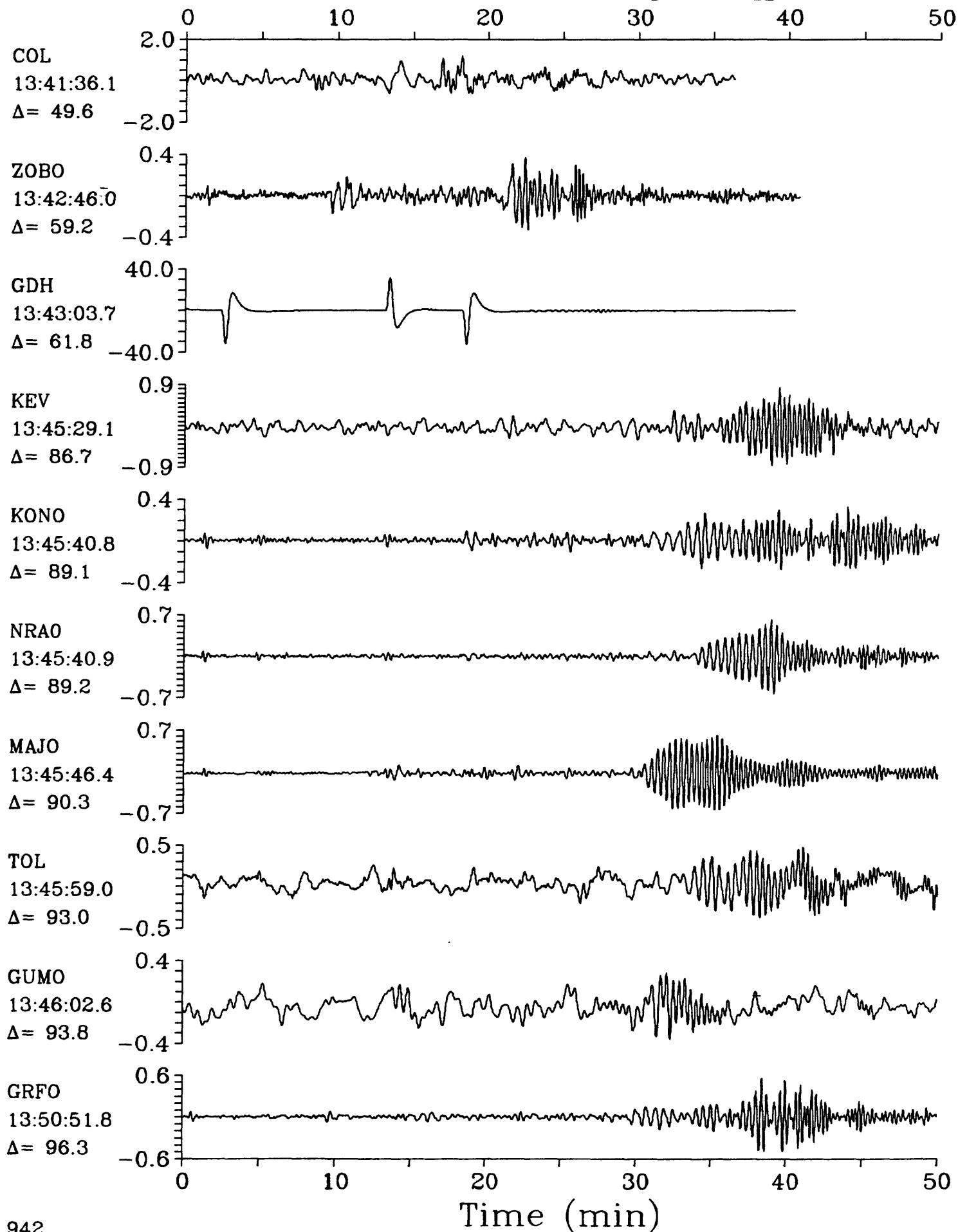
LPZ

East Central Pacific Ocean $h=10.0$ $m_b=5.5$ $M_{sz}=5.1$ 

LPZ

28 May 1986 13:33:44.15

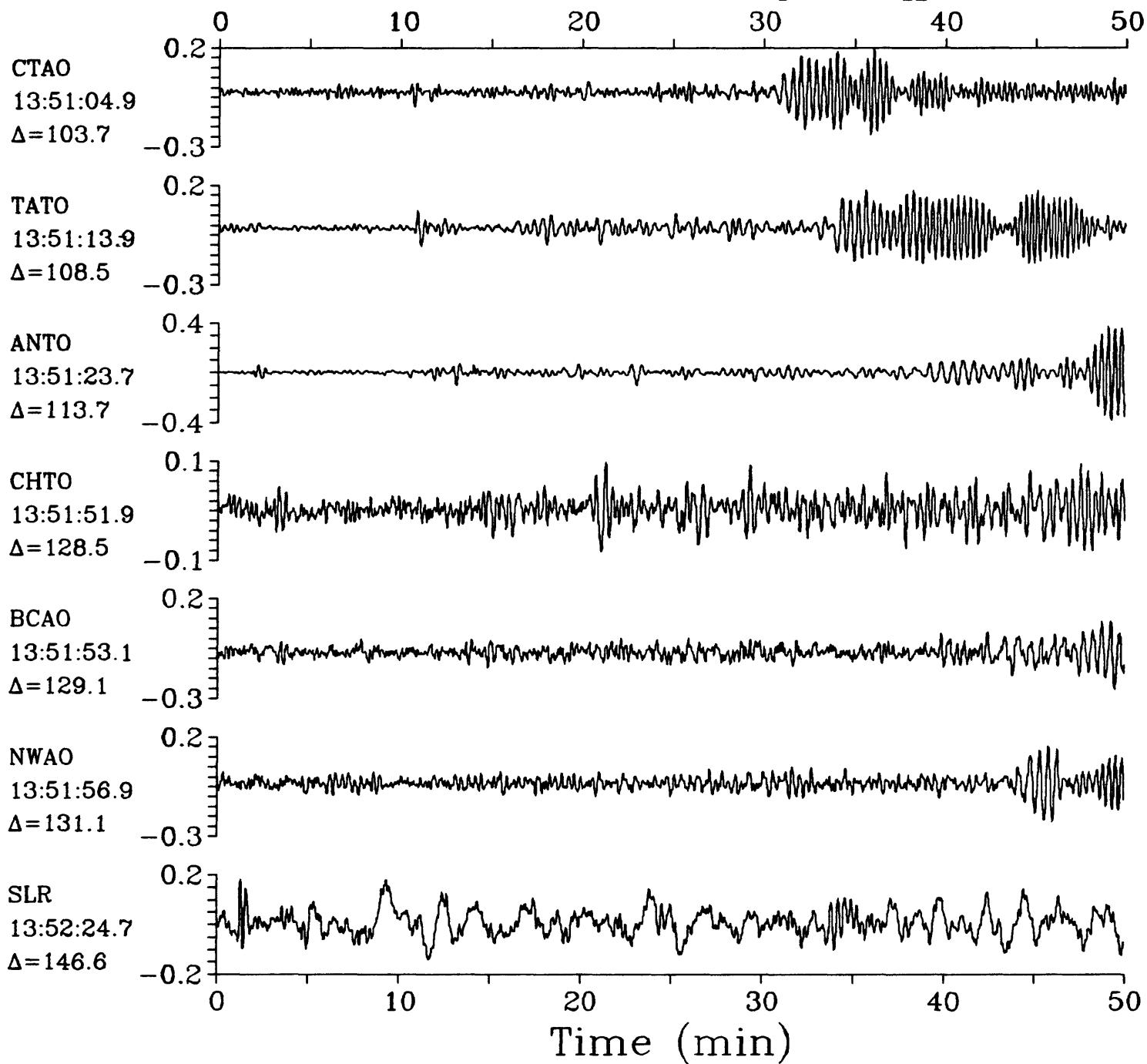
LPZ

East Central Pacific Ocean $h=10.0$ $m_b=5.5$ $M_{sz}=5.1$ 

LPZ

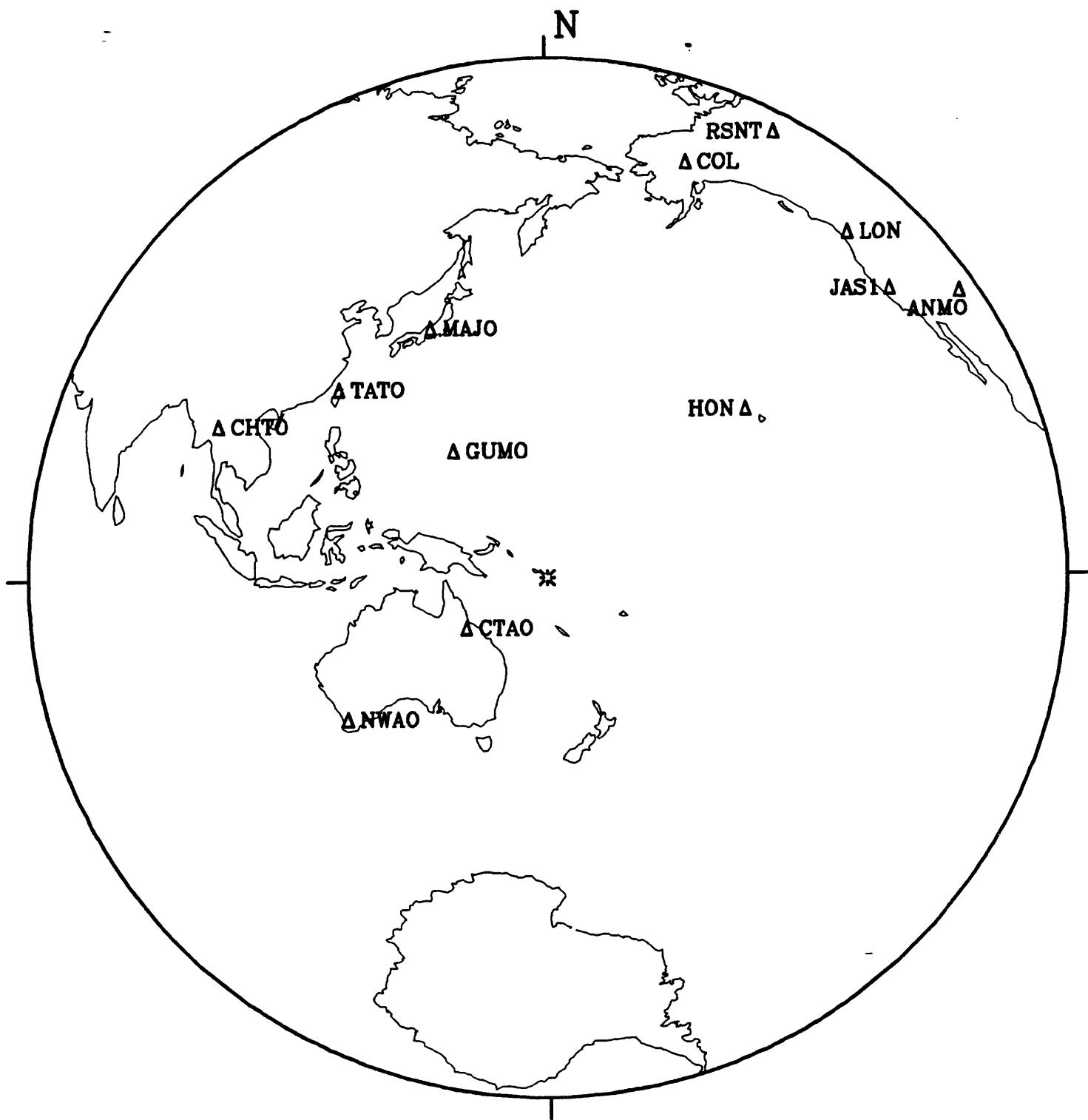
28 May 1986 13:33:44.15

LPZ

East Central Pacific Ocean $h=10.0$ $m_b=5.5$ $M_{sz}=5.1$ 

30 May 1986 08:02:37.28

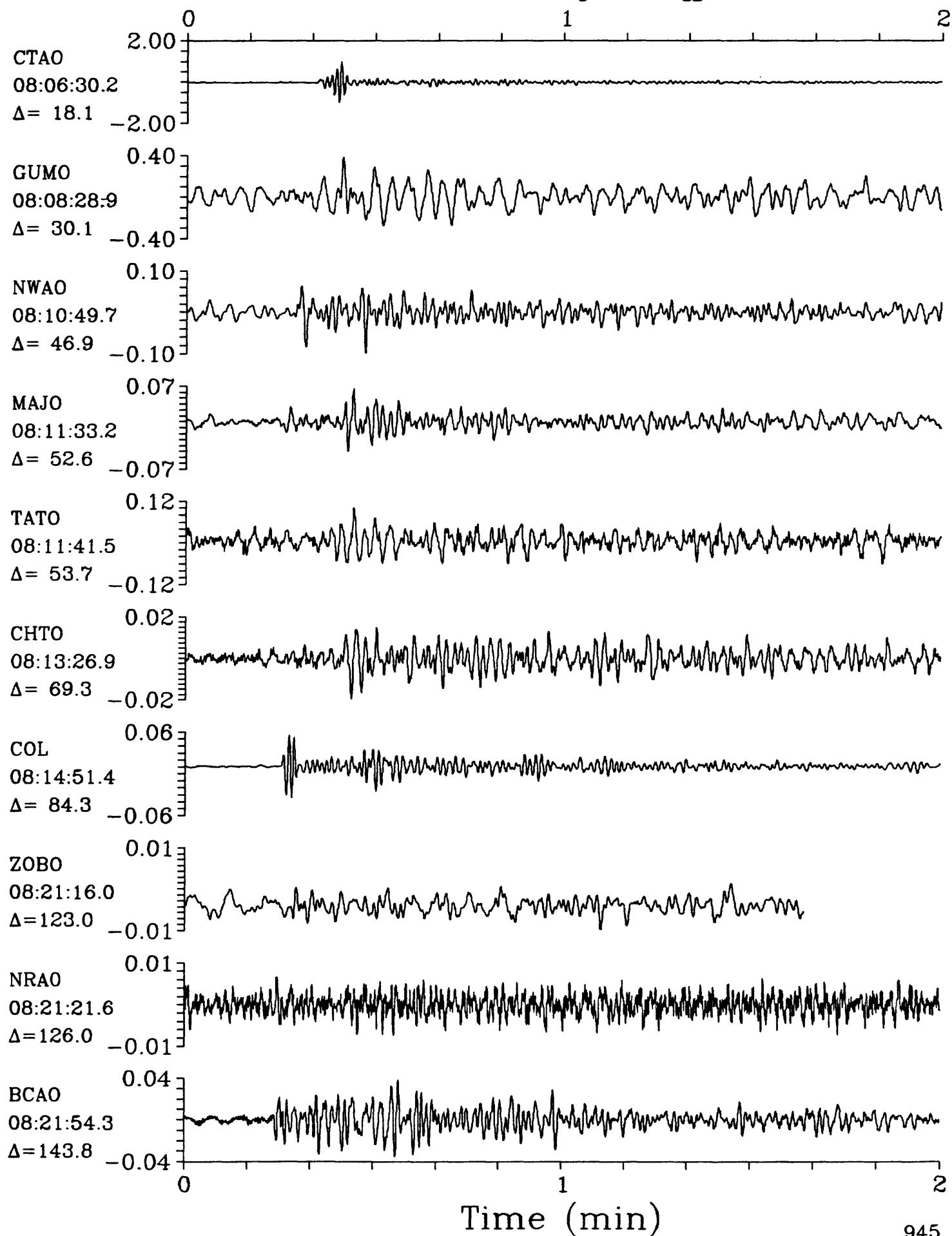
Solomon Islands



SPZ

30 May 1986 08:02:37.28

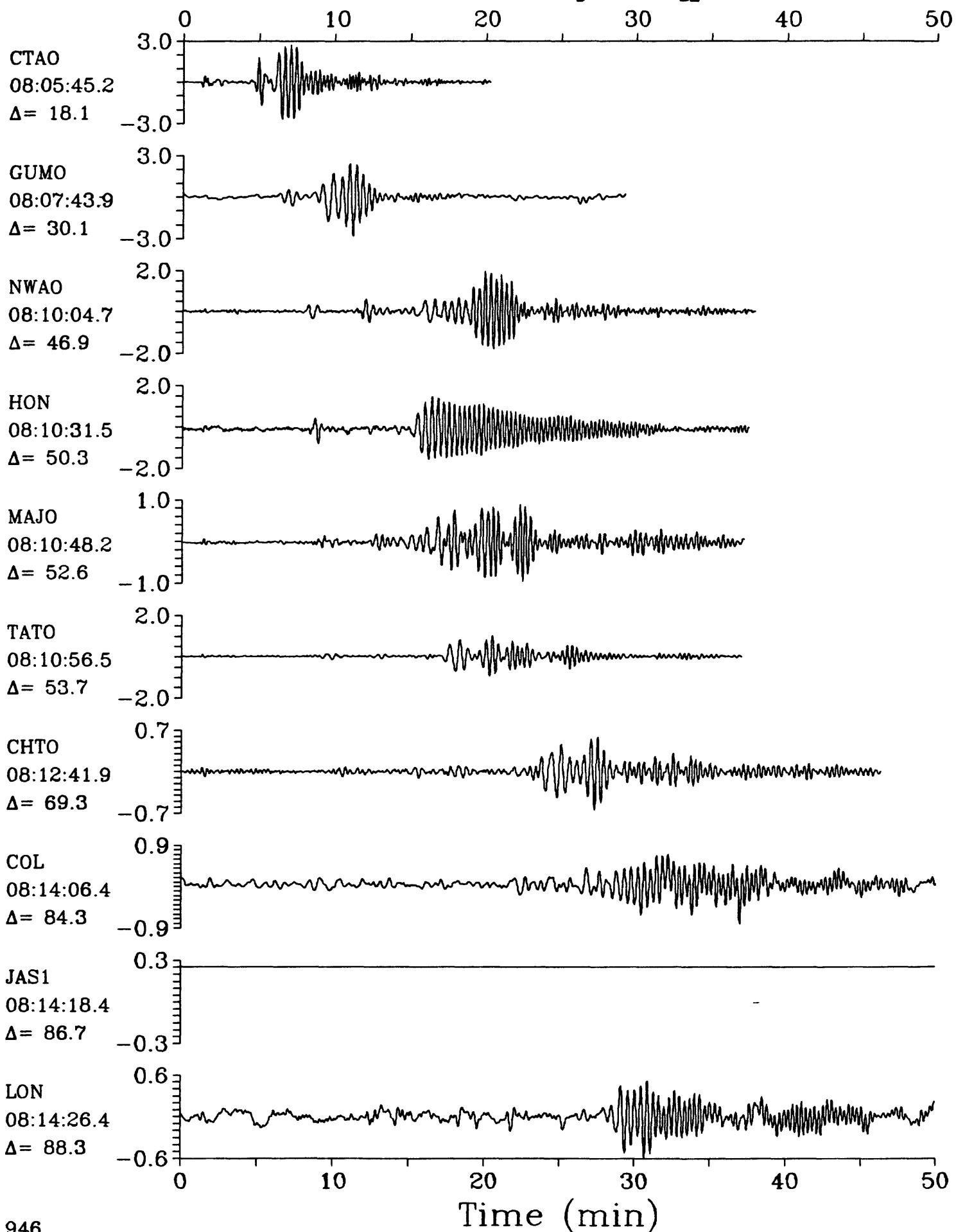
SPZ

Solomon Islands $h=33.0$ $m_b=5.5$ $M_{sz}=5.0$ 

LPZ

30 May 1986 08:02:37.28

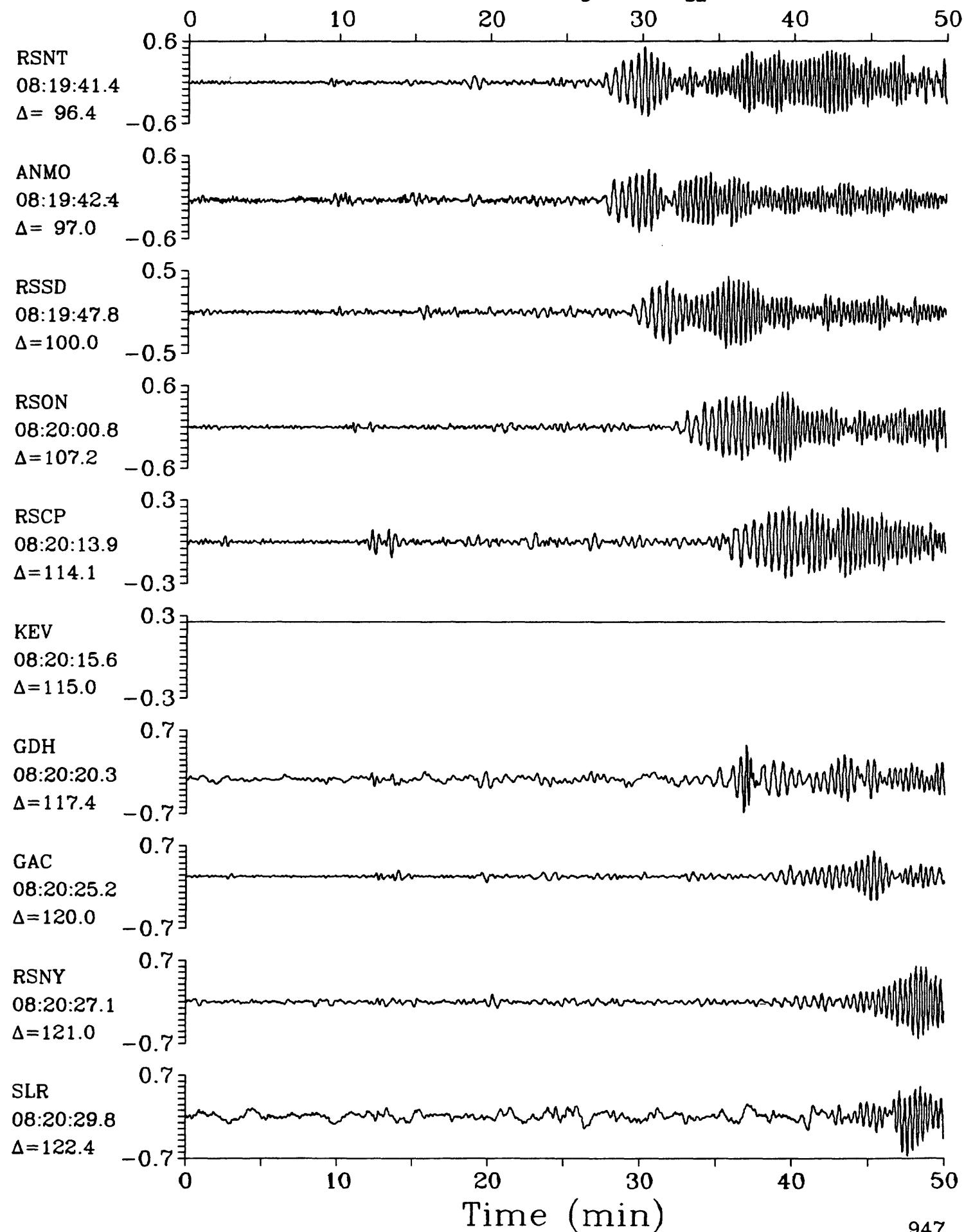
LPZ

Solomon Islands $h=33.0$ $m_b=5.5$ $M_{sz}=5.0$ 

LPZ

30 May 1986 08:02:37.28

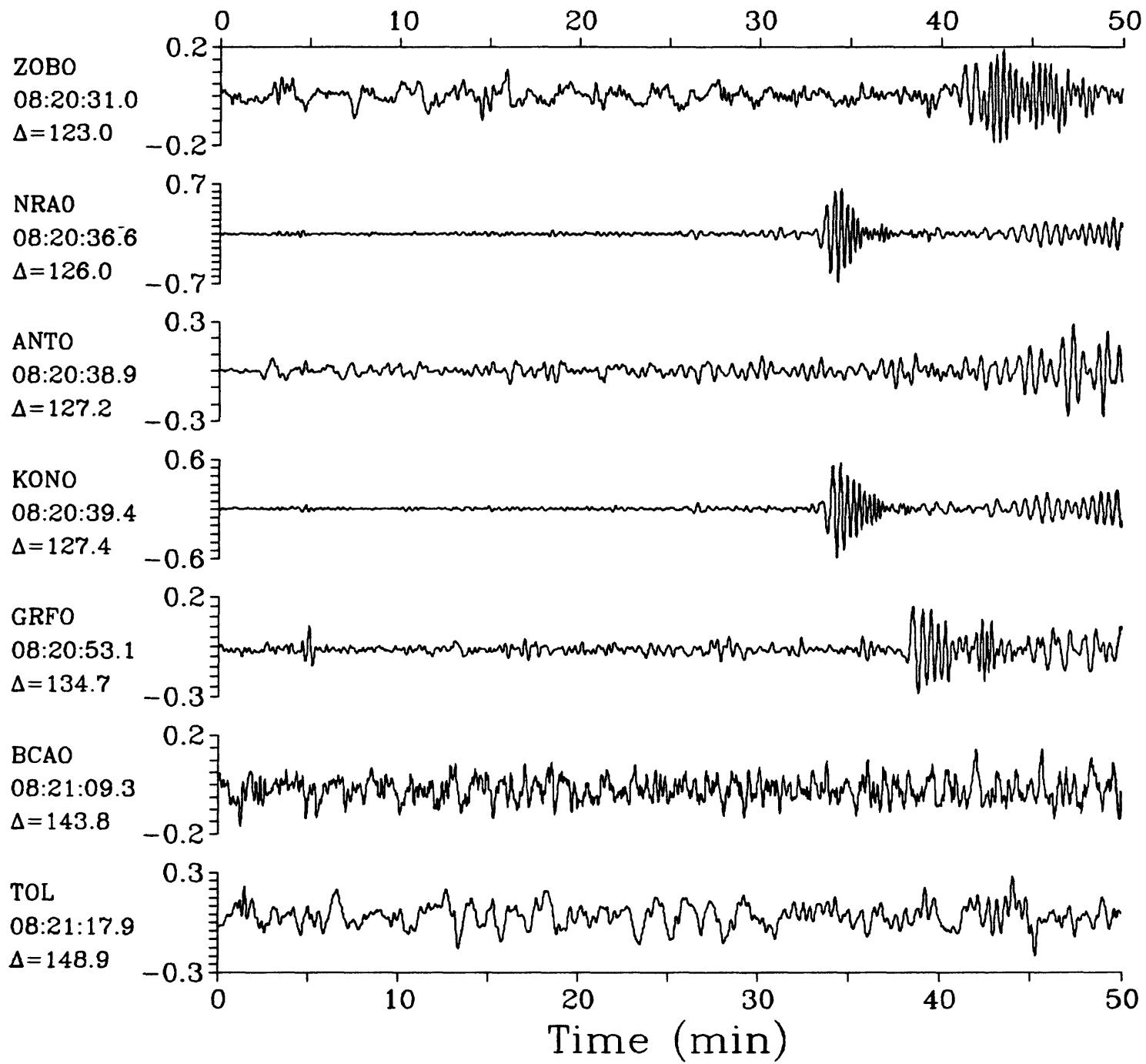
LPZ

Solomon Islands $h=33.0$ $m_b=5.5$ $M_{sz}=5.0$ 

LPZ

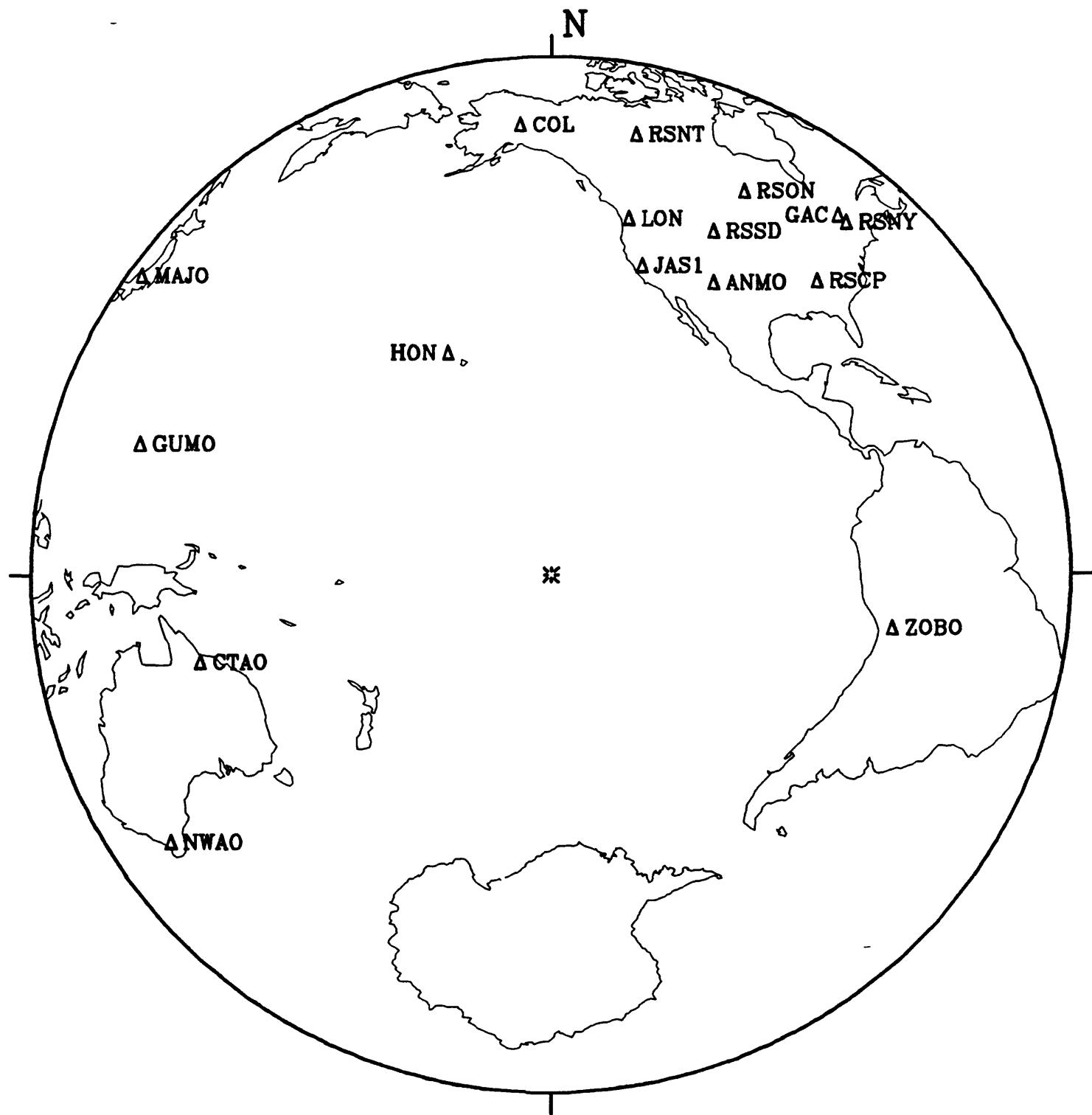
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LPZ

Solomon Islands $h=33.0$ $m_b=5.5$ $M_{sz}=5.0$ 

30 May 1986 17:24:58.23

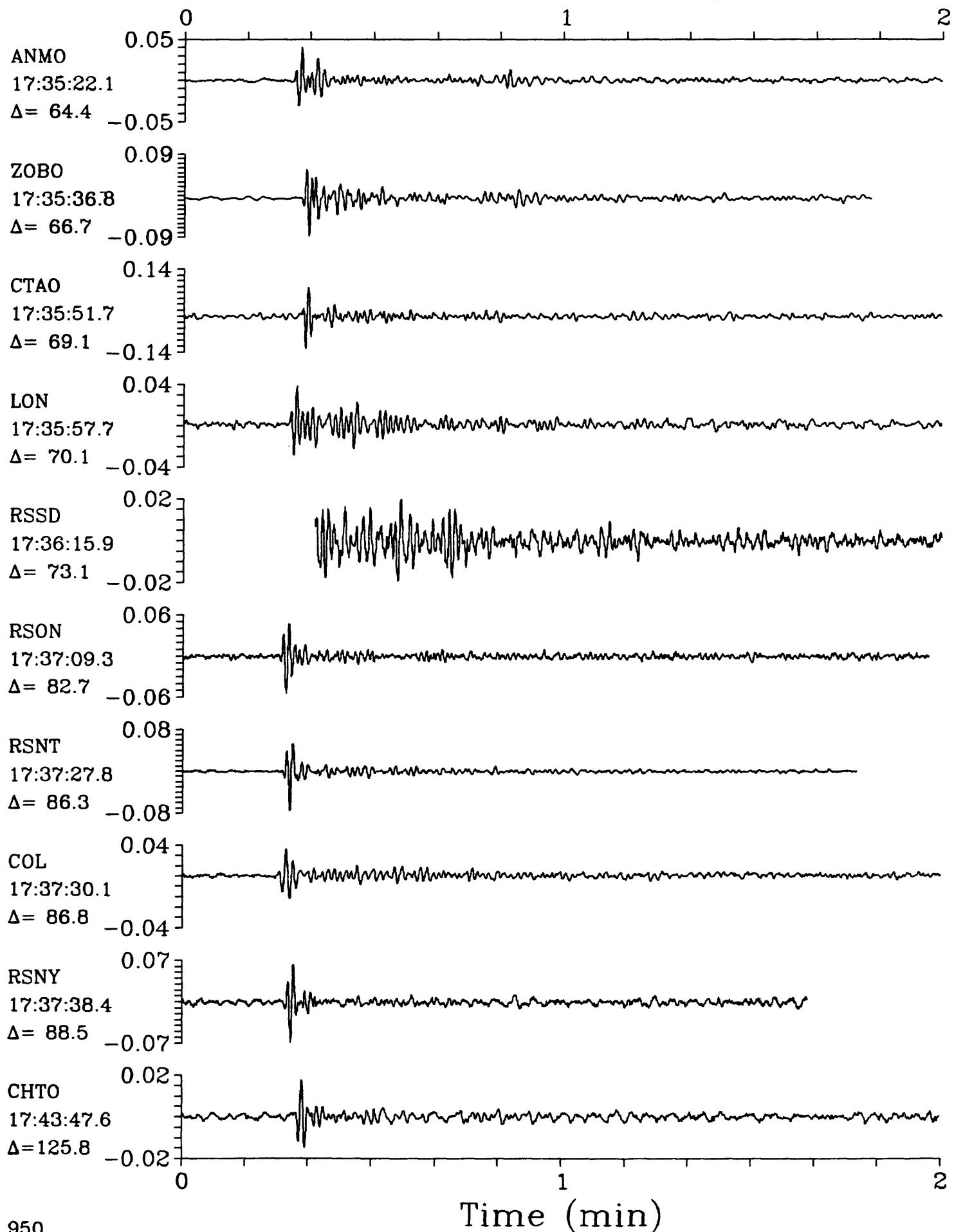
Tuamotu Archipelago Region



SPZ

30 May 1986 17:24:58.23

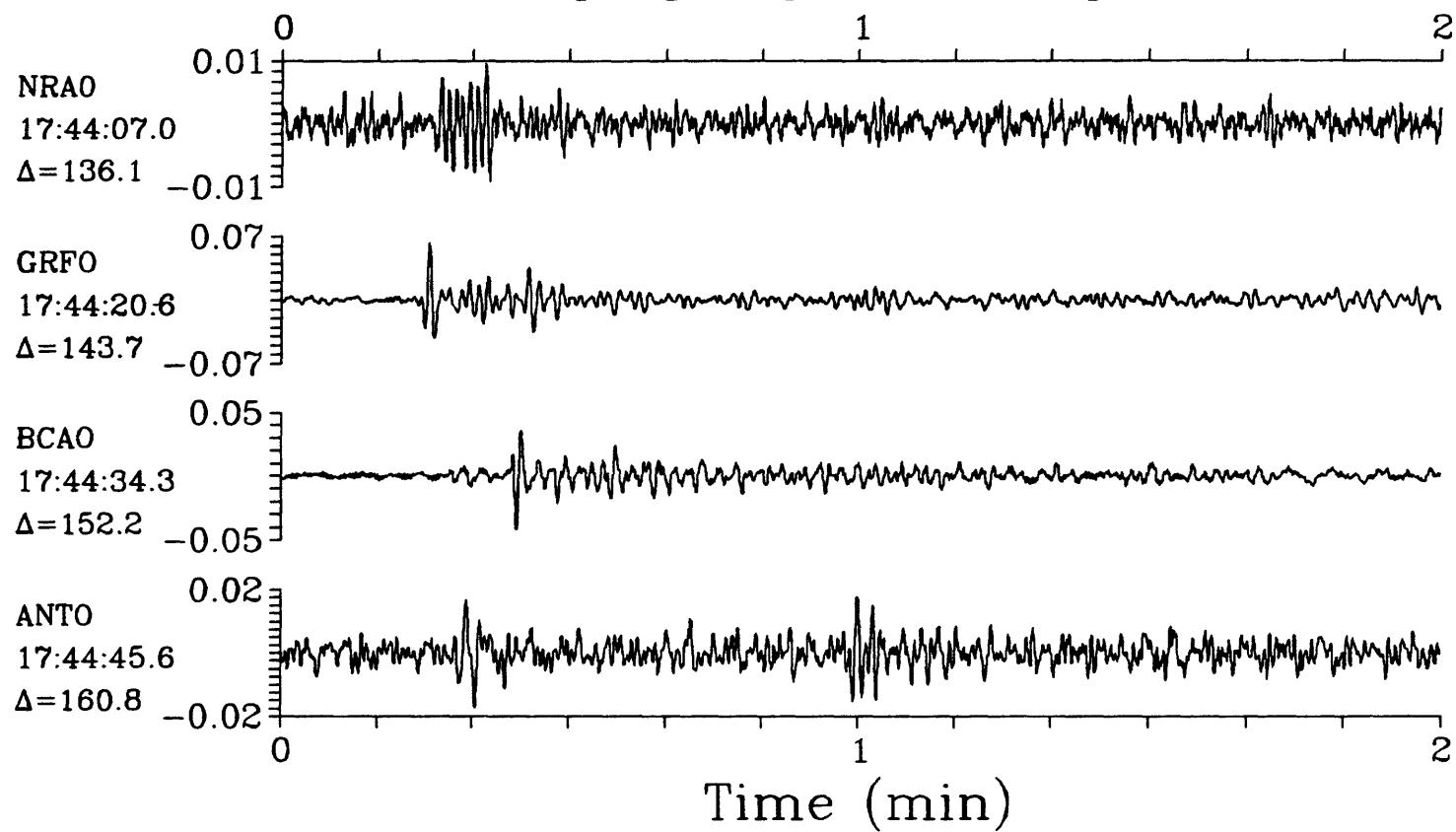
SPZ

Tuamotu Archipelago Region $h=0.0$ $m_b=5.7$ 

SPZ

30 May 1986 17:24:58.23

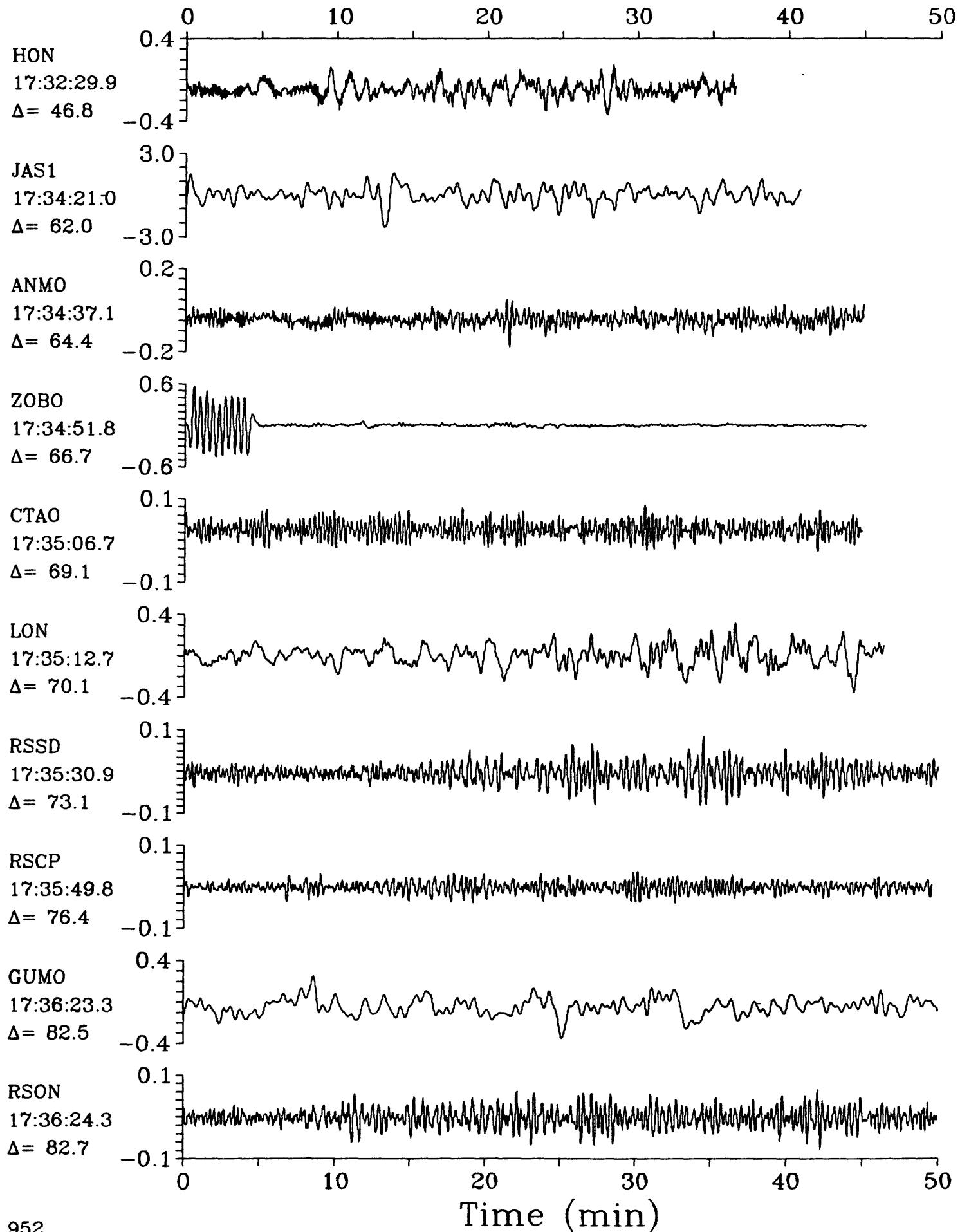
SPZ

Tuamotu Archipelago Region $h=0.0$ $m_b=5.7$ 

LPZ

30 May 1986 17:24:58.23

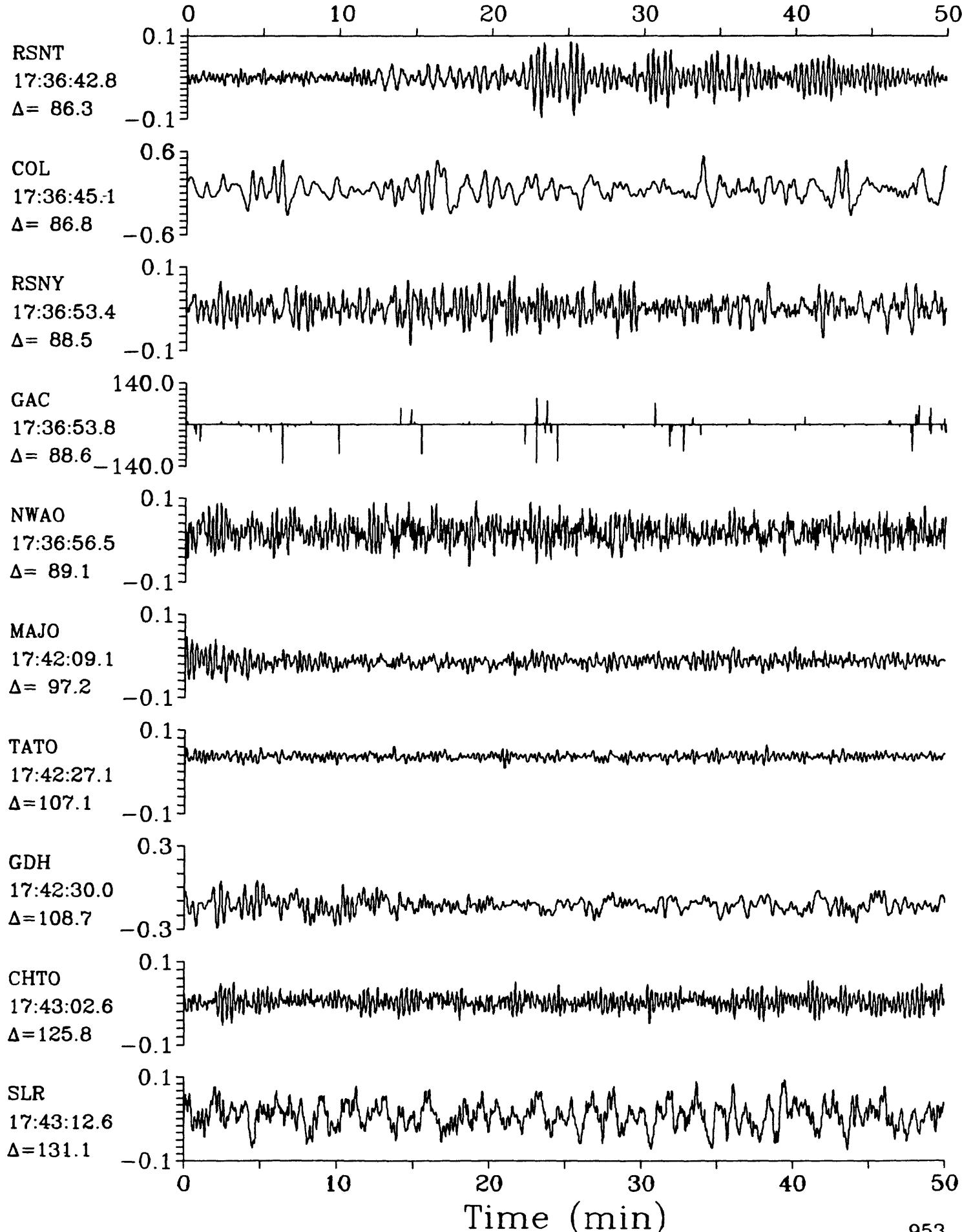
LPZ

Tuamotu Archipelago Region $h=0.0$ $m_b=5.7$ 

LPZ

30 May 1986 17:24:58.23

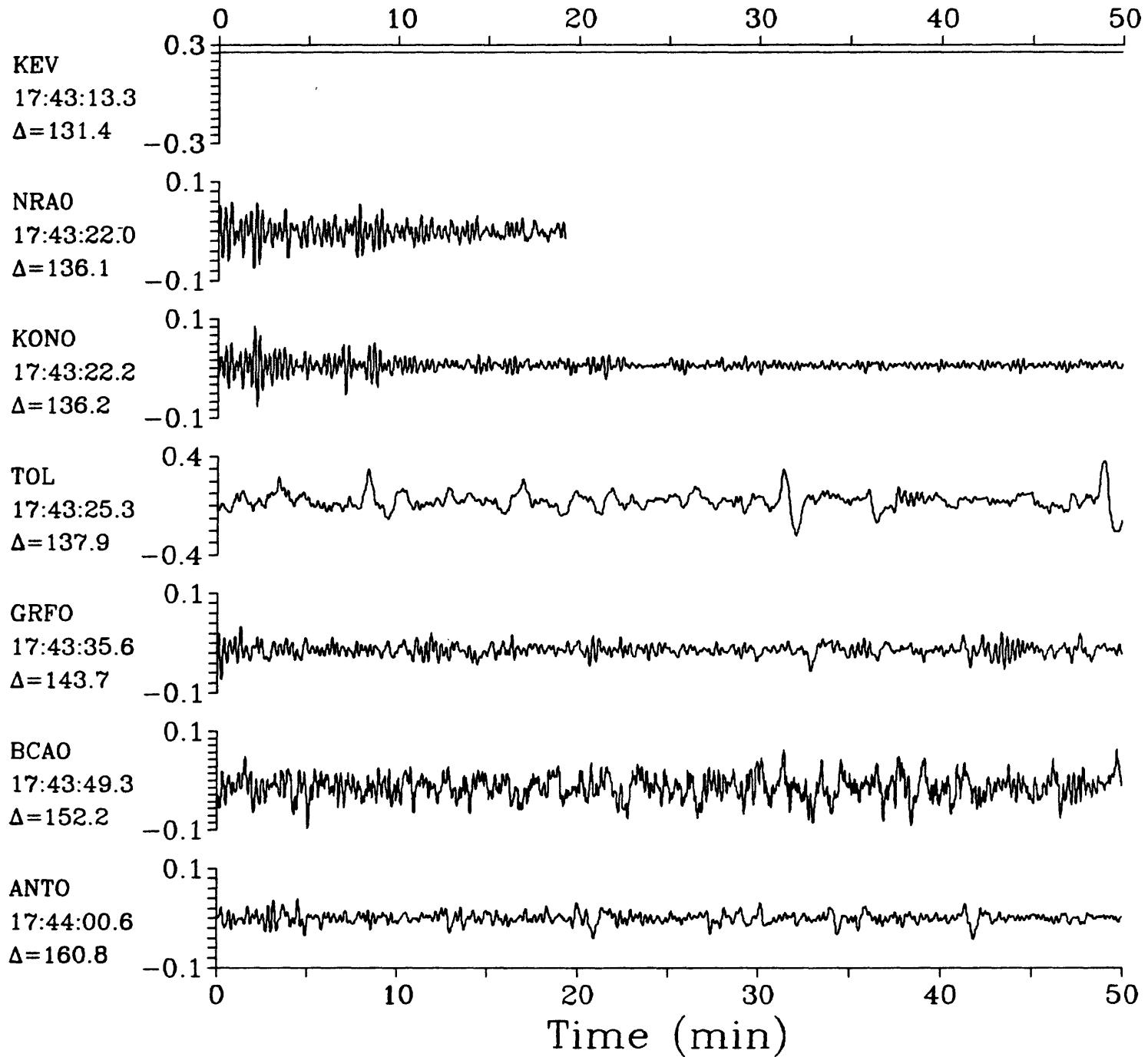
LPZ

Tuamotu Archipelago Region $h=0.0$ $m_b=5.7$ 

LPZ

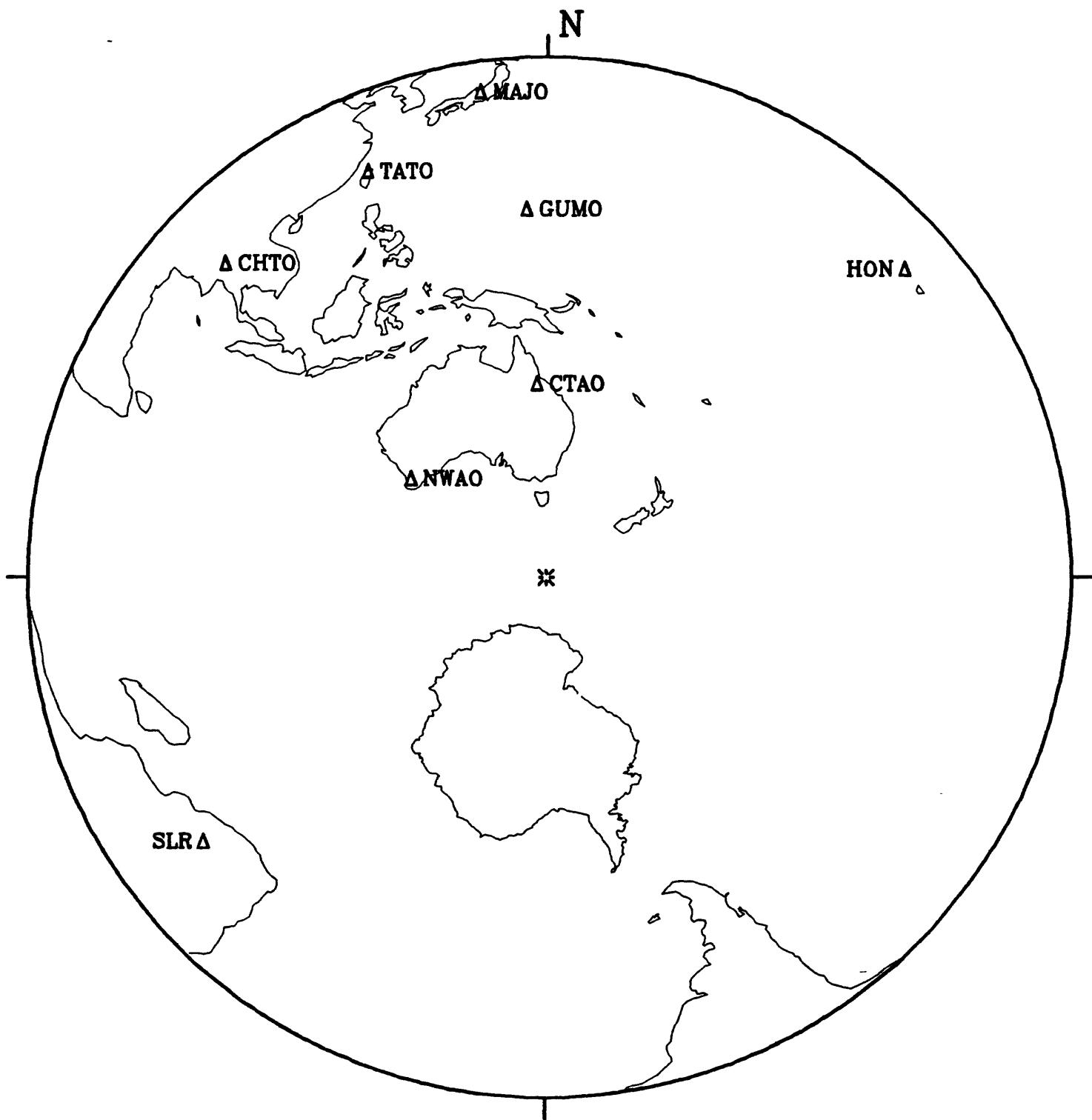
30 May 1986 17:24:58.23

LPZ

Tuamotu Archipelago Region $h=0.0$ $m_b=5.7$ 

31 May 1986 05:36:29.88

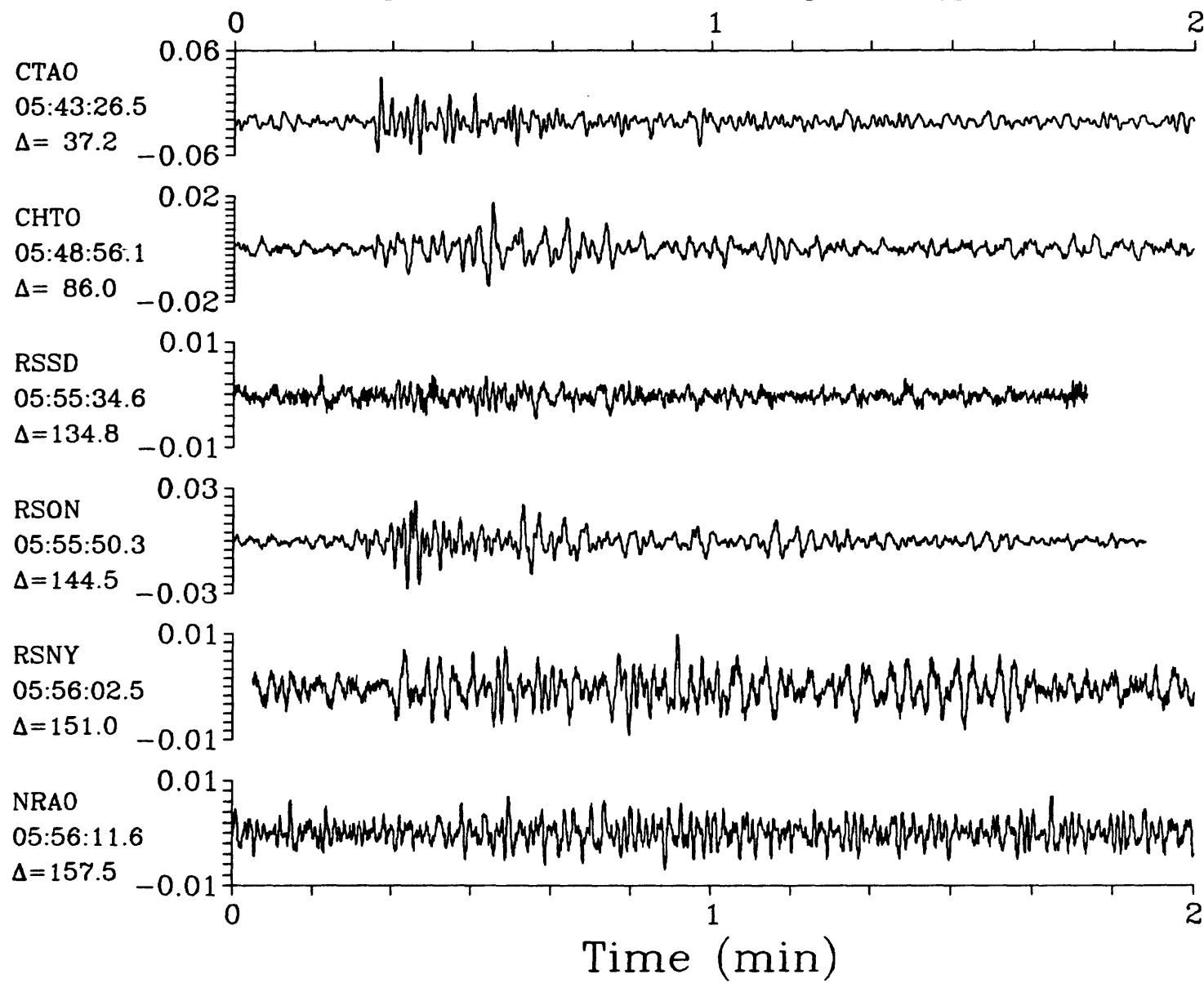
West of Macquarie Island



SPZ

31 May 1986 05:36:29.88

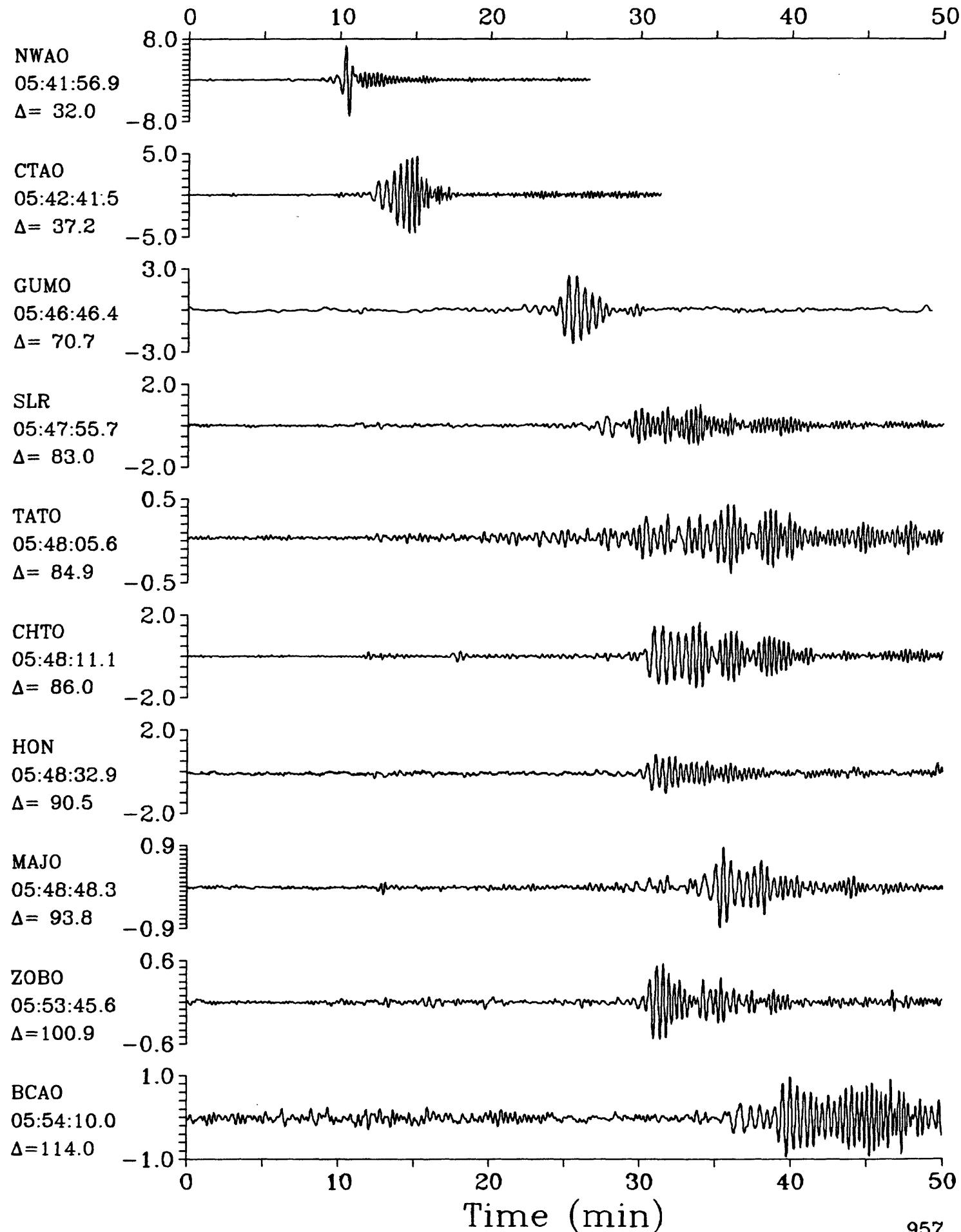
SPZ

West of Macquarie Island $h=10.0$ $m_b=5.0$ $M_{sz}=5.6$ 

LPZ

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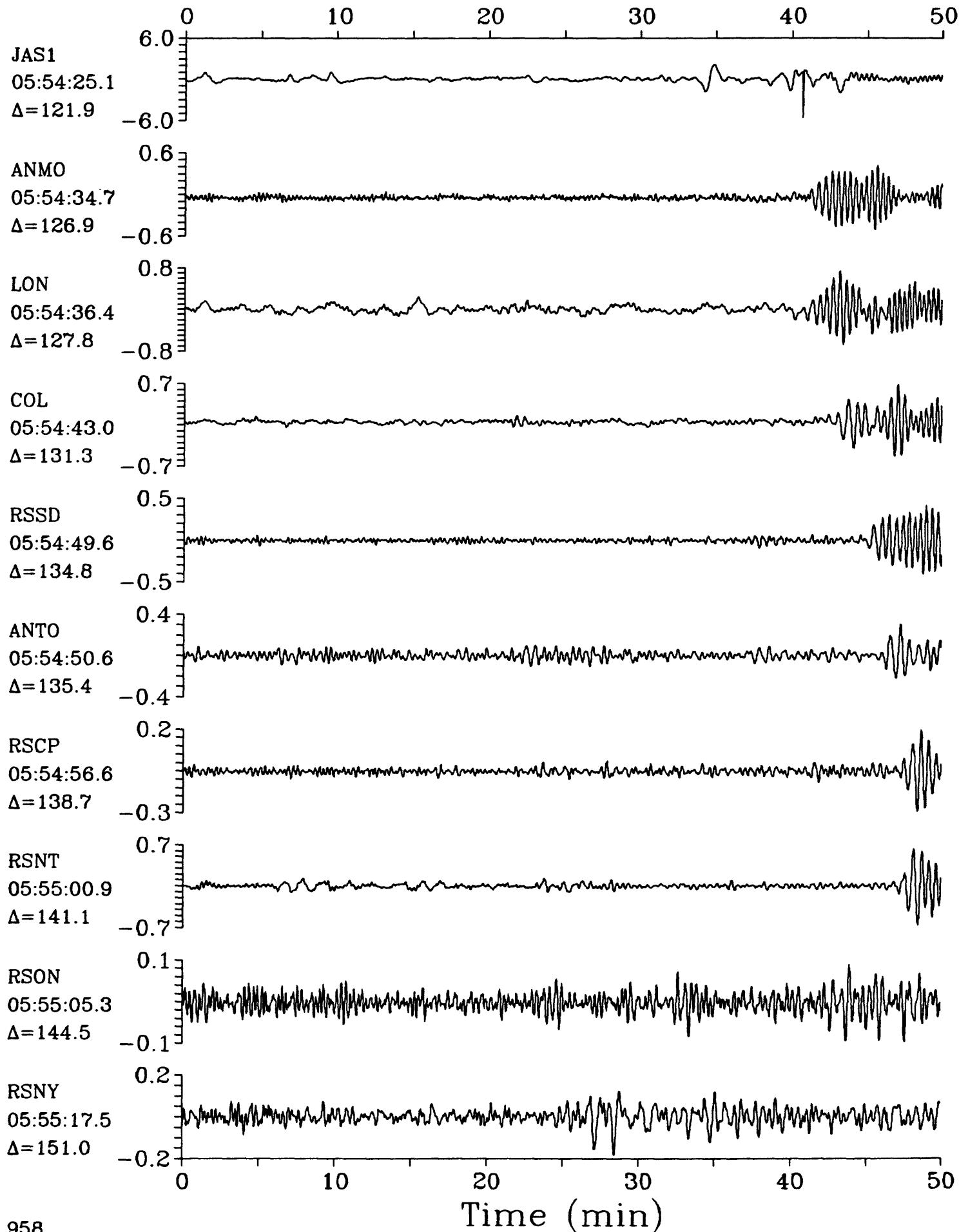
LPZ

West of Macquarie Island $h=10.0$ $m_b=5.0$ $M_{SZ}=5.6$ 

LPZ

31 May 1986 05:36:29.88

LPZ

West of Macquarie Island $h=10.0$ $m_b=5.0$ $M_{sz}=5.6$ 

LPZ

31 May 1986 05:36:29.88

LPZ

West of Macquarie Island $h=10.0$ $m_b=5.0$ $M_{SZ}=5.6$ 